

Craft Putt - Lee's Summit

GENERAL NOTES

- GENERAL CONTRACTOR AND ALL OTHER CONTRACTORS WORKING ON THIS CONSTRUCTION PROJECT SHALL MEET ALL APPLICABLE CODE REQUIREMENTS. ALL CONSTRUCTION AND MATERIALS SHALL COMPLY WITH ANY AND ALL APPLICABLE CODES, REGULATIONS, DIRECTIVES AND LAWS. CONTRACTOR SHALL BE KNOWLEDGEABLE OF ALL CITY REGULATIONS AND CODE ISSUES AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT UPON DISCOVERY OF ANY DISCREPANCIES ON THE DOCUMENTS OR CONDITIONS OF THE PROJECT SITE.
- SUBSTANTIAL COMPLETION SHALL BE ESTABLISHED ON DELIVERY OF OCCUPANCY PERMIT. FINAL COMPLETION SHALL BE DEEMED COMPLETED WHEN ALL PUNCH LIST ITEMS ARE COMPLETED AND APPROVED. ALL SUPPORT EQUIPMENT INSTALLED AND COMPLETE. OWNER WILL DETERMINE FINAL COMPLETION.
- THE RESPONSIBILITIES CONCERNING THE PREPARATION AND REVIEW OF THE APPLICATION FOR PAYMENT AND PAYMENT SCHEDULE SHALL BE ADDRESSED IN THE AGREEMENTS BETWEEN THE OWNER, ARCHITECT, AND CONTRACTOR.
- THE ARCHITECT WILL BE AVAILABLE TO THE OWNER AND CONTRACTOR DURING CONSTRUCTION. THE ARCHITECT WILL ASSIST THE OWNER AND/OR CONTRACTOR IN OBTAINING A BUILDING PERMIT.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CONSTRUCTION PROCESS, MATERIAL VERIFICATION, AND WORKER SAFETY.
- THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR DETAILS AND ACCURACY, FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, AND FOR TECHNIQUES OF ASSEMBLY.
- ALL CUTTING AND PATCHING SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER. ANY EXISTING FINISHES DISTURBED OR DAMAGED BY THE CONTRACTOR OR TRADES UNDER CONTRACT DURING THE COURSE OF THE WORK SHALL BE REPAIRED TO MATCH EXISTING.
- NO SUBSTITUTES OF SPECIFIED CONSTRUCTION ITEMS, EQUIPMENT AND FINISHES WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND ARCHITECT.
- ALL BIDDING CONTRACTOR(S) SHALL VISIT THE SITE OF THE PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS OF THE PROJECT SITE, AS THEY CURRENTLY EXIST, SO THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS PRIOR TO SUBMITTING ANY BIDS.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH SCHEDULING INFORMATION PRIOR TO CONSTRUCTION, WHICH WILL BE UPDATED IF THERE ARE ANY CHANGES.
- ALL REQUIRED COMMUNICATION SHALL BE THROUGH THE ARCHITECT AND OWNER.
- DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOBSITE. INFORMATION CONTAINED IN THESE DRAWINGS IS GENERAL AND NOT BASED ON EXISTING DOCUMENTS AND FIELD MEASUREMENTS. THE INFORMATION CONTAINED HEREIN MAY REQUIRE ADJUSTMENTS OR MODIFICATIONS TO CONFORM TO EXISTING CONDITIONS AND DESIGN INTENT OF DOCUMENTS. THE CONTRACTOR MUST NOTIFY ARCHITECT OF ANY CONFLICTS AND/OR VARIATIONS.
- CONTRACTOR SHALL FURNISH ALL ITEMS SHOWN ON THE DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FLOOR FINISH MATERIALS TO ENSURE THAT TRANSITIONS BETWEEN FLOORING MATERIALS WILL BE SMOOTH AND IN ACCORDANCE WITH THE DRAWINGS.
- UNLESS OTHERWISE STATED, CHANGES IN FLOORING MATERIAL SHALL OCCUR AT THE CENTERLINE OF DOORS.
- ALL STUDS, CEILING FURRING AND FRAMING MEMBERS SHALL BE SO PLACED AS TO AVOID INTERFERENCE WITH LOCATIONS OF CASEWORK, RECESSED LIGHTING FIXTURES, PIPING, DUCT WORK, ETC.
- DEMOLITION WORK SHALL INCLUDE ALL EXISTING CONSTRUCTION AS INDICATED AND AS REQUIRED TO COMPLETE NEW WORK AS INDICATED ON THE DOCUMENTS AND TO THE DESIGN INTENT OF DRAWINGS, WHETHER OR NOT DEMOLITION WORK IS SPECIFICALLY INDICATED.
- ALL CONTRACTORS SHALL GUARANTEE ALL WORK EXECUTED UNDER THIS CONTRACT, BOTH AS TO MATERIALSHIP, FOR A PERIOD OF TWELVE MONTHS AFTER DATE OF SUBSTANTIAL COMPLETION. IN ADDITION, ANY DAMAGE TO ADJACENT AREAS/SURFACES CAUSED BY FAULTY MATERIALS OR WORKMANSHIP SHALL ALSO BE REPAIRED TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.
- CONTRACTOR SHALL PROVIDE ALL PATCHING, CLEANING, AND REPAIR WORK TO EXISTING SURFACES AS REQUIRED TO ACHIEVE SMOOTH, CLEAN WALL SURFACES FOR FINISH MATERIALS. REMOVE ALL DECALS, MARKS, PAINT, DIRT, AND DISCOLORATION FROM EXISTING MATERIALS TO REMAIN.
- CONTRACTOR TO INSTALL ALL MATERIAL PER MANUFACTURERS' REQUIREMENTS, UL RATING REQUIREMENTS, SPECIFIC TRADE GUIDELINES, INDUSTRY STANDARDS, AND BUILDING CODES. ALL NEW FINISHES TO COMPLY WITH IBC CHAPTER 8.
- PROVIDE SIGNAGE MEETING ADA REQUIREMENTS AND LOCATIONS DICTATED BY THE CITY AND LOCAL CODES. DESIGN, CONTENT, AND LOCATIONS SHALL BE PROVIDED TO THE OWNER AND ARCHITECT PRIOR TO INSTALLATION.
- ALL SURFACES SCHEDULED FOR PAINT IN FOOD PREPARATION AND RESTROOM AREAS SHALL BE EPOXY TYPE PAINT FOR WASHABILITY.
- NO COMBUSTIBLE MATERIALS WILL BE ALLOWED IN RETURN AIR PLENUMS.
- INSTALL NEW OR MODIFY THE EXISTING FIRE SPRINKLER SYSTEM (IF EXISTING) AS REQUIRED TO SATISFY APPLICABLE CODES FOR NEW WORK AND EXISTING CONDITIONS COMBINED.
- THE CONTRACTOR MUST SUBMIT TO OWNER AN INSURANCE CERTIFICATE WITH MINIMUM COVERAGE OF \$1,000,000 IN GENERAL LIABILITY OR EQUAL. THIS CERTIFICATE MUST NAME THE OWNER AS ADDITIONAL INSURED.
- ALL CHANGES, DEVIATIONS, MODIFICATIONS, ADDITIONS OR DELETIONS FROM THE CONTRACT OR CONSTRUCTION OF APPROVED ARCHITECTURAL PLANS SHALL BE APPROVED BY THE OWNER AND ARCHITECT. WHEN UNAPPROVED DEVIATIONS ARE MADE, THE GC SHALL BE HELD LIABLE FOR ANY ERRORS, OMISSIONS, DELAYS AND SUPPLEMENTARY COSTS INCURRED (INCLUDING ARCHITECTURAL & ENGINEERING PROFESSIONAL SERVICE FEES) THAT MAY BE REQUIRED AS A RESULT OF THESE DEVIATIONS.
- ALL DIMENSIONS ARE FROM FACE OF FINISH TO FACE OF FINISH UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ALL INTERIOR SURFACES AND EXTERIOR DEBRIS SPECIFIC TO CONSTRUCTION ACTIVITIES PRIOR TO OCCUPANCY OF THE SPACES BY THE OWNER. ADDITIONAL CLEANING FOLLOWING THE RECONCILIATION OF PUNCHLIST ITEMS SHALL ALSO BE INCLUDED. FINAL CLEANUP SHALL CONSIST OF THE FOLLOWING:
 - REMOVE ALL CONSTRUCTION DEBRIS, UNUSED MATERIALS, TOOLS, ETC.
 - CLEAN, SANITIZE, AND STOCK ALL TOILET ROOMS
 - CLEAN ALL COUNTERS AND TABLETOPS
 - CLEAN INTERIOR AND EXTERIOR SURFACES OF STOREFRONT GLASS AND FRAMES
 - CLEAN ALL FLOORS
 - CLEAN ALL GLASS SURFACES
 - REPLACE ALL FILTER MEDIA IN HVAC SYSTEMS

LOCATOR PLAN



PROJECT LOCATION NORTH

SCOPE SUMMARY

Interior renovation of an existing space (T.I.). Scope includes demolition of existing conditions and installation of new partitions, doors, and finishes. Contractor to coordinate IT/AV/security installation in the field with Tenant vendor.

CODE SUMMARY

THE PLANS SUBMITTED HAVE BEEN DESIGNED TO MEET THE CODES AS LISTED BELOW:
2018 International Building Code
2018 International Existing Building Code
2018 International Plumbing Code
2018 International Energy Conservation Code
2018 International Mechanical Code
2018 International Fuel Gas Code
2018 International Fire Code
2017 National Electrical Code
ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities

CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION
NEW USE = ASSEMBLY A2
FORMER USE (FOREVER 21) = MERCANTILE USE

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS (TABLE 503)
THIS SCOPE OF WORK DOES NOT INCREASE THE AREA OF THE EXISTING BUILDING/TENANT SPACE.

TENANT RENOVATION AREA = 11,295 SF

CHAPTER 6 TYPES OF CONSTRUCTION
CONSTRUCTION TYPE II-B
FULLY SPRINKLED

CHAPTER 9 FIRE PROTECTION SYSTEMS
FIRE EXTINGUISHERS PROVIDED IN ACCORDANCE WITH INTERNATIONAL FIRE CODE: (EXTINGUISHERS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR) NFPA 10
SMOKE DETECTORS TO BE PROVIDED.

CHAPTER 10 MEANS OF EGRESS
THE EXISTING BUILDING MEETS THE REQUIREMENTS FOR MEANS OF EGRESS.

OCCUPANT LOAD: REFER TO SHEET A001
REQUIRED: 2 MEANS OF EGRESS
PROVIDED: 2 MEANS OF EGRESS
COMMON PATH OF TRAVEL IS 73'<75'
EXIT TRAVEL DISTANCE IS 181'<250'

CHAPTER 11 ACCESSIBILITY
THE EXISTING BUILDING MEETS THE REQUIREMENTS FOR ACCESSIBLE ENTRIES. THE EXISTING PARKING SPACES MEET THE REQUIREMENTS FOR ACCESSIBLE PARKING.

CHAPTER 29 PLUMBING SYSTEMS
THIS SCOPE OF WORK DOES NOT INCREASE THE AREA OF THE EXISTING BUILDING AND MEETS THE REQUIREMENTS FOR PLUMBING SYSTEMS. REF TO A001 FOR FIXTURE COUNTS.

PROJECT TEAM

TENANT:
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Summit Fair
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LEE'S SUMMIT, MO 64086
785.817.6699
contact: *AJ Chinn*

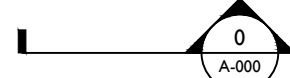
MEP:
FSC MEP Engineers
9225 Indian Creek Pkwy #300,
Overland Park, KS 66210
913.669.0819
Contact: *Logan Unrein*

ARCHITECTURAL:
clockwork
423 Delaware Street, Suite 102
Kansas City, MO 64105
816.548.7094
contact: *Daniel Umscheid*

FOOD SERVICE:
Lori Foerster
TriMark Hockenbergs
14603 W 112th ST.
Lenexa, KS 66215
p: 913.998.7576

DRAWING SYMBOLS

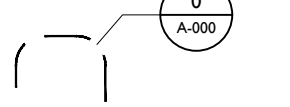
WALL SECTION MARK



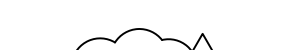
ELEVATION MARKS



DETAIL REFERENCE MARK
PLAN REFERENCE MARK



REVISION MARK & CLOUD



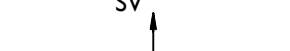
ROLLER SHADE



WALL FINISH CALL OUT



FLOOR FINISH CALL OUT



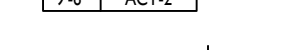
GLAZING MARK



CEILING INFO



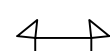
ELEVATION DATUM



ROOM TITLE



EMERGENCY BATTERY PACK FIXTURE



FIRE ALARM STROBE/COMBINATION SPEAKER, PROVIDE PER CODE



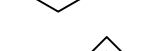
CONSTRUCTION NOTE



DOOR MARK



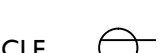
WINDOW MARK



WALL PARTITION TYPE



DUPLEX RECEPTACLE



EXISTING DUPLEX RECEPTACLE



EXIT SIGN LOCATION



LINE THRU DEVICE INDICATES ABOVE-COUNTER



TELEPHONE/DATA OUTLET



EXISTING PARTITION



NEW PARTITION



SHEET INDEX

ARCHITECTURAL:

A000 COVER SHEET, INDEX
A001 CODE PLAN
A002 PARTITION TYPES
AD100 DEMOLITION PLAN
AD150 DEMOLITION REFLECTED CEILING PLAN
A100 FLOOR PLAN
A101 ENLARGED FLOOR PLAN
A150 REFLECTED CEILING PLAN
A151 CEILING DETAILS
A200 ROOF PLAN
A300 EXTERIOR ELEVATIONS
A400 INTERIOR ELEVATIONS
A401 INTERIOR ELEVATIONS
A500 INTERIOR DETAILS
A501 INTERIOR DETAILS
A600 FINISH PLAN
A601 FURNITURE PLAN
A700 SCHEDULES & ACCESSIBILITY

MEP:

MEP000 MEP LEGENDS AND SYMBOLS
MEP001 MEP SPECIFICATIONS
MEP002 MEP SPECIFICATIONS
MEP101 MEP NEW WORK ROOF PLAN
DM100 MECHANICAL DEMOLITION PLAN
M100 MECHANICAL NEW WORK PLAN
M500 MECHANICAL DETAILS
M600 MECHANICAL SCHEDULES
DE100 ELECTRICAL DEMOLITION PLAN
DEL100 LIGHTING DEMOLITION PLAN
EP100 ELECTRICAL NEW WORK PLAN
EL100 LIGHTING NEW WORK PLAN
E600 ELECTRICAL SCHEDULES
E601 ELECTRICAL SCHEDULES AND ONE-LINE DIAGRAM
DP100 PLUMBING DEMOLITION PLAN
P100 PLUMBING WASTE & VENT NEW WORK PLAN
P101 PLUMBING DOMESTIC WATER AND GAS NEW WORK PLAN
P500 PLUMBING DETAILS
P600 PLUMBING SCHEDULES
P601 PLUMBING SCHEDULES
P700 PLUMBING DOMESTIC WATER PIPING ISOMETRIC
P701 PLUMBING WASTE AND VENT PIPING ISOMETRIC
P702 PLUMBING NATURAL GAS PIPING ISOMETRIC
FP100 FIRE PROTECTION NEW WORK PLAN
FP500 FIRE PROTECTION DETAILS

FOOD SERVICE:

QF101 FOOD SERVICE EQUIPMENT PLAN
QF201 FOOD SERVICE PLUMBING IN-SLAB ROUGH-IN PLAN
QF301 FOOD SERVICE ELECTRICAL ROUGH-IN PLAN
QF401 FOOD SERVICE SPECIAL CONDITIONS PLAN

-END OF INDEX-

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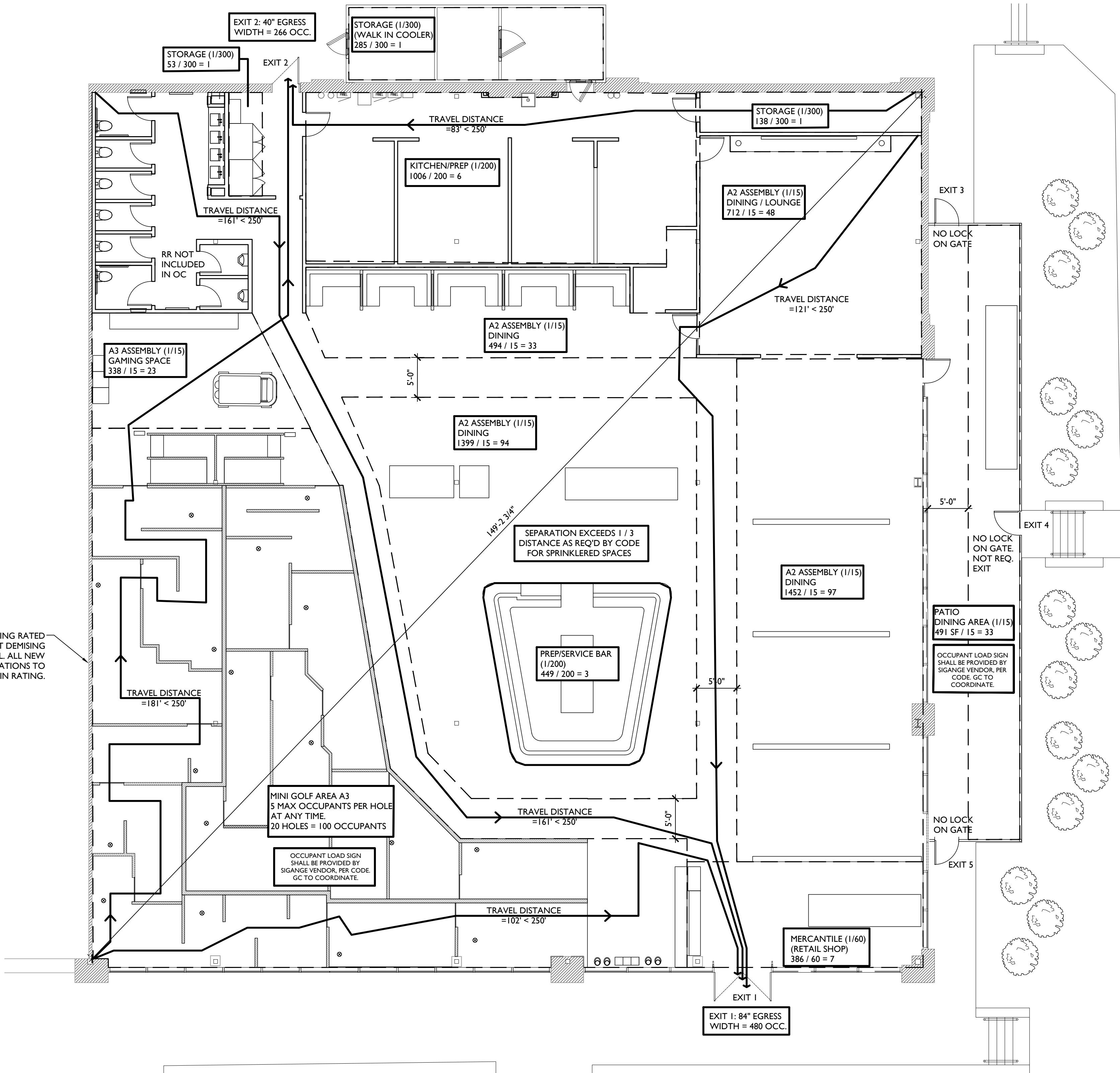
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LEE'S SUMMIT, MO 64086

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A000

COVER SHEET
CODE INFO



PREP/SERVICE BAR (1/200)
449 / 200 = 3

KITCHEN/PREP (1/200)
1006 / 200 = 6

STORAGE (1/300)
(WALK IN COOLER)
285 / 300 = 1

STORAGE (1/300)
53 / 300 = 1

STORAGE (1/300)
138 / 300 = 1

12 OCCUPANTS

MERCANTILE (1/60)
(RETAIL SHOP)
386 / 60 = 7

MINI GOLF AREA A3
5 MAX OCCUPANTS PER HOLE AT ANY TIME.
20 HOLES = 100 OCCUPANTS

A3 ASSEMBLY (1/15)
GAMING SPACE
338 / 15 = 23

A2 ASSEMBLY (1/15)
DINING
1452 / 15 = 97

A2 ASSEMBLY (1/15)
DINING
1399 / 15 = 94

A2 ASSEMBLY (1/15)
DINING
494 / 15 = 33

A2 ASSEMBLY (1/15)
DINING / LOUNGE
712 / 15 = 48

402 OCCUPANTS

PATIO
DINING AREA (1/15)
491 SF / 15 = 33

33 OCCUPANTS

447 TOTAL OCCUPANTS
(INCLUDING SEASONAL OUTDOOR PATIO)
224 FEMALE / 224 MALE

RESTROOM FIXTURE COUNTS

- CALCULATIONS PER 2018 IBC TABLE 2902.1 ARE SHOWN BELOW.
- THE OUTDOOR PATIO SPACE HAS BEEN INCLUDED WITHIN THESE CALCULATIONS

WATER CLOSETS		REQUIRED	PROVIDED
MALE	= 1 PER 75	3	4 (URINALS NOT TO EXCEED 67% OF REQUIRED WVC)
FEMALE	= 1 PER 75	3	4

LAVATORIES		REQUIRED	PROVIDED
MALE	= 1 PER 200	2	2
FEMALE	= 1 PER 200	2	2

SERVICE SINK IS PROVIDED (EXISTING TO REMAIN)

FREE WATER IS PROVIDED IN LIEU OF DRINKING FOUNTAIN

NOTE:
Clean Indoor Air Ordinance:
The City of Lee's Summit has an ordinance which prohibits smoking in virtually all enclosed areas of public places and places of employment. Per the ordinance, a "No Smoking" sign or the international "No Smoking" symbol (consisting of a burning cigarette enclosed in a red circle with a red bar across it) shall be clearly and conspicuously posted at every entrance where smoking is prohibited. The person who owns, manages, operates or otherwise controls a public place or place of employment is responsible for compliance with the Clean Indoor Air Act. Questions regarding the Clean Indoor Air Act may be directed to Development Services at (816) 969-1200.

NOTE:
2018 IFC 1004.3- Posting of occupant load. Every room or space that is an assembly occupancy shall have the occupant load of the room or space posted in a conspicuous place, near the main exit or exit access doorway from the room or space. Posted signs shall be of an approved legible permanent design and shall be maintained by the owner or authorized agent. (Action Required)
Post occupant load at 113 in the interior and 19 in the patio area.

NOTE:
2018 IFC 907.1.1- Construction documents. Construction documents for fire alarm systems shall be submitted for review and approval prior to system installation. Construction documents shall include, but not be limited to, all of the following: 1. A floor plan which indicates the use of all rooms. 2. Locations of alarm-initiating and notification appliances. 3. Alarm control and trouble signaling equipment. 4. Annunciation. 5. Power connection. 6. Battery calculations. 7. Conductor type and sizes. 8. Voltage drop calculations. 9. Manufacturers, model numbers and listing information for equipment, devices and materials. 10. Details of ceiling height and construction. 11. The interface of fire safety control functions. (Action required) Provide three sets of PE stamped shop drawings for the fire alarm system.
THIS INFORMATION SHALL BE PROVIDED AS A DEFERRED SUBMITTAL

NOTE:
2018 IFC 505.1- Address numbers. New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. In Multi-tenant commercial building where tenants have multiple entrances located on different sides of the building, each door shall be addressed. Address numbers shall be Arabic numerals or alphabet letters. Numbers shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm).

NOTE:
2018 IFC 901.5- Installation acceptance testing. Fire detection and alarm systems, fire-extinguishing systems, fire hydrant systems, fire standpipe systems, fire pump systems, private fire service mains and all other fire protection systems and appurtenances thereto shall be subject to acceptance tests as contained in the installation standards and as approved by the fire code official. The fire code official shall be notified before any required acceptance testing. The fire code official shall be notified 48 hours before any required acceptance test. (Informational Purposes) Call (816)969-1300 to schedule a hood trip test and alarm test.

NOTE:
2018 IFC 904.1.1.5- Portable fire extinguishers for commercial cooking equipment. Portable fire extinguishers shall be provided within a 30-foot (9144 mm) travel distance of commercial-type cooking equipment. Cooking equipment involving vegetable or animal oils and fats shall be protected by a Class K rated portable extinguisher. (Verified At Inspection) Mount K-Class extinguisher by manual pull.

NOTE:
2018 IFC 906.5- Conspicuous location. Portable fire extinguishers shall be located in conspicuous locations where they will be readily accessible and immediately available for use. These locations shall be along normal paths of travel, unless the fire code official determines that the hazard posed indicates the need for placement away from normal paths of travel. (Action Required) Provide 2 2A10BC fire extinguishers.
GC SHALL COORD FULL / SEMI RECESSED FEC'S WITH ARCH TO SATISFY CODE.

NOTE:
2018 IFC 1010.1.10 Panic and fire exit hardware. Doors serving a Group H occupancy and doors serving rooms or spaces with an occupant load of 50 or more in a Group A or E occupancy shall not be provided with a latch or lock unless it is a panic hardware or fire exit hardware. (Action Required) Provide door schedule with panic hardware on exit doors.
PANIC HARDWARE IS PRESENT ON EXISTING-TO-REMAIN EGRESS DOORS AND HAS BEEN VERIFIED.

NOTE:
2018 IBC 1606.2 Design dead load. For purposes of design, the actual weights of materials of construction and fixed service equipment shall be used. In the absence of definite information, values used shall be subject to the approval of the building official.
REFER TO MEP SHEETS FOR WEIGHTS AND ROOF PLAN FOR PRE-STRUCTURED AND DESIGNATED EQUIPMENT ZONE.

NOTE:
For the Health Department review contact Deb Sees with the Jackson County Public Works Department, Environmental Services Division, at (816) 847-7070. Health Department approval is required prior to receiving any type of building permit from the City of Lee's Summit.
For the Health Department inspection contact Deb Sees with the Jackson County Public Works Department, Environmental Health Division at (816) 847-7070. Health Department approval is required prior to receiving any type of Occupancy from the City of Lee's Summit.
CLOCKWORK SHALL SUBMIT DRAWINGS TO JACKSON COUNTY PUBLIC WORKS DEPARTMENT.



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A001

CODE PLAN



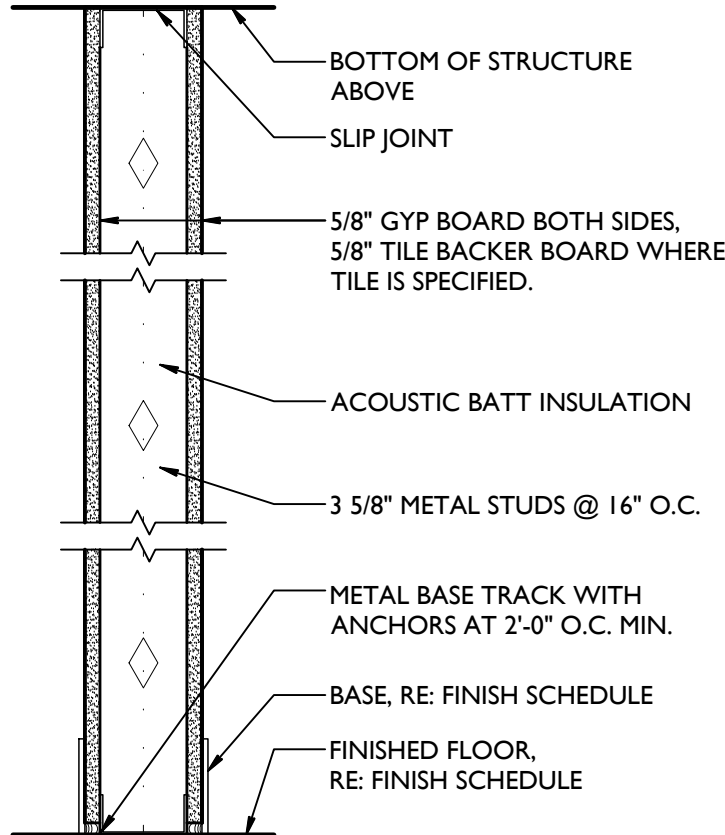


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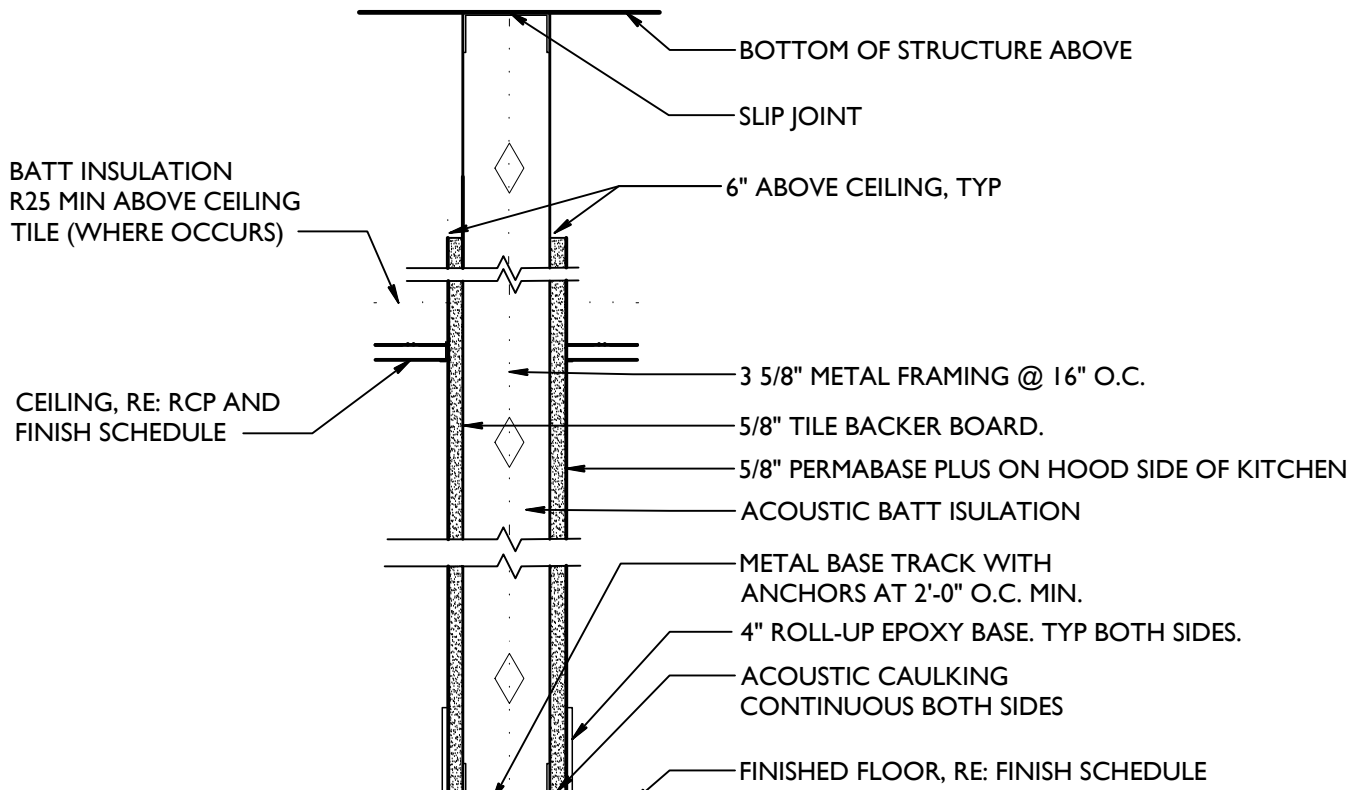
Summit Fair
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LEE'S SUMMIT, MO 64086

WALL TYPE GENERAL NOTES

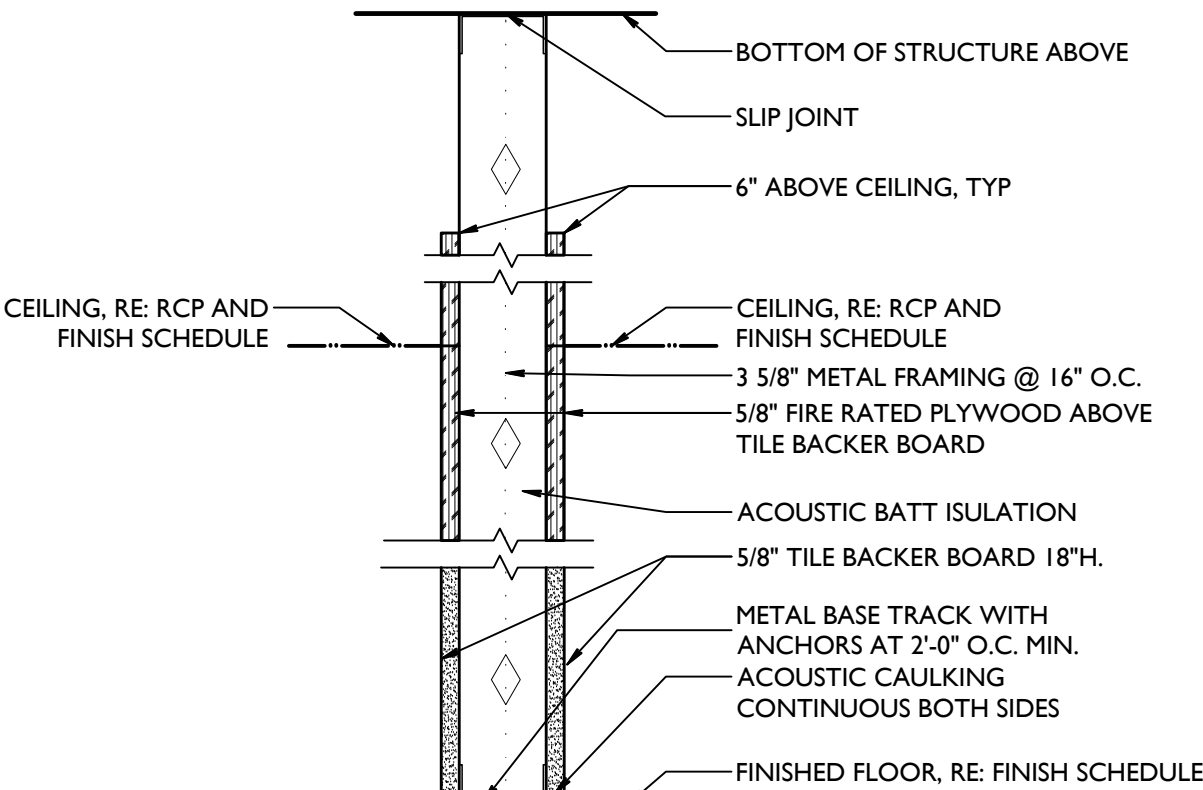
1. PROVIDE 3/4" FIRE-TREATED PLYWOOD TO DECK WHERE CALLED OUT IN PLAN.
2. FRAMING TO BE MTL. STUD FARMING.
3. GYP BD TO BE HELD OFF FINISH FLOOR 1/2" MIN. TYPICAL.
4. ALL WALLS IN BOH SHALL RECEIVE 1/2" TILE BACKERBOARD AT 18"-24" AFF AND 1/2" FIRE-TREATED PLYWOOD ABOVE BACKERBOARD.
5. METAL CORNER BEAD TO BE USED ON ALL OUTSIDE CORNERS OR TOP OF PARTIAL HEIGHT WALLS WHERE GYP BD WRAPS.
6. ALL BLOCKING SHALL SPAN FULLY BETWEEN BOTH ADJACENT STUDS AT A MINIMUM.
7. PROVIDE LEVEL 5 WALL FINISH FOR ALL WALLS SCHEDULED FOR EGGSHELL OR HIGHER SHEEN PAINT. LEVEL 5 WHERE SEMI-GLOSS OR HIGHER AND WALLCOVERING.
8. CONTRACTOR TO FIELD VERIFY CONDITIONS WHERE BARE FRAMING EXISTS AND PROVIDE NEW 5/8" GYPSUM BOARD OVER ALL EXISTING BARE FRAMING (TYP).
9. PROVIDE ACOUSTIC BATT INSULATION ABOVE ALL ROOMS WITH ACOUSTICAL CEILING TILE (TYP).
10. PROVIDE MOISTURE RESISTANT GYPSUM BOARD IN ALL WET LOCATIONS. I.E. RESTROOMS, KITCHEN AND BOH.
11. USE TCNA APPROVED BACKER BOARD AT ALL WALLS WITH TILE
12. USE FIRE-TREATED PLYWOOD (OR APPROVED ALT.) SUBSTRATE AT ALL WALLS AND CEILINGS WITH WOOD VENEERS PANELS



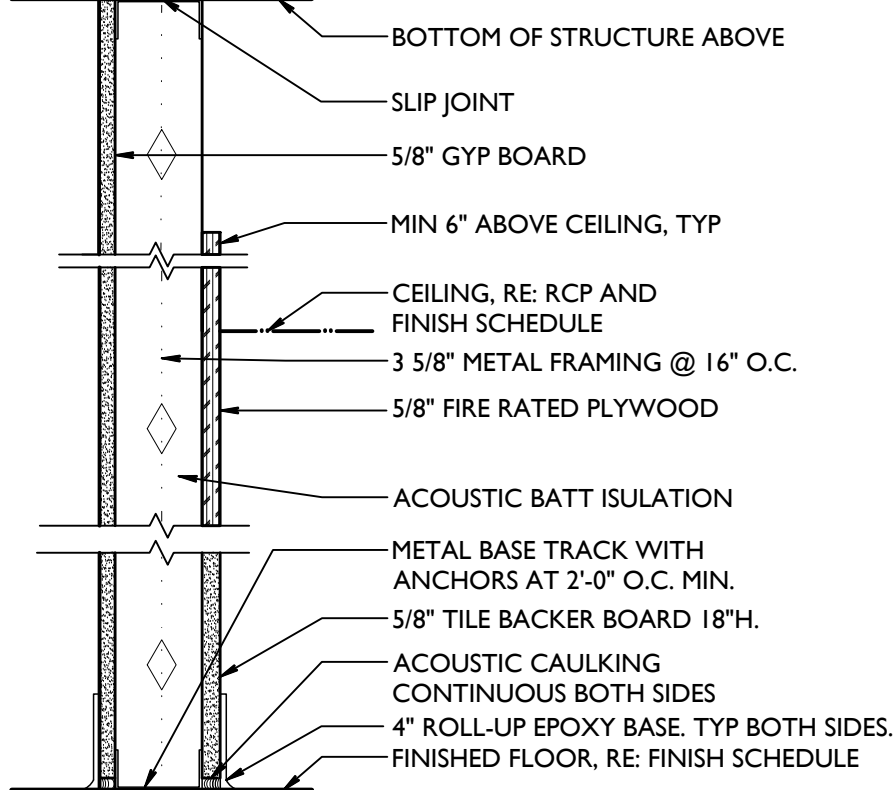
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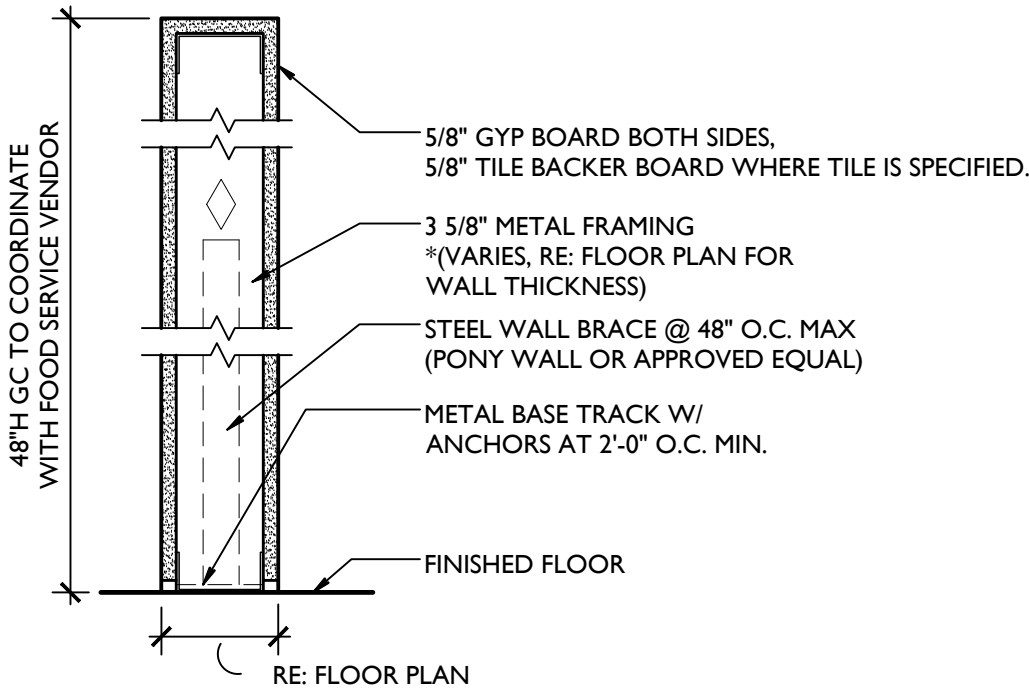
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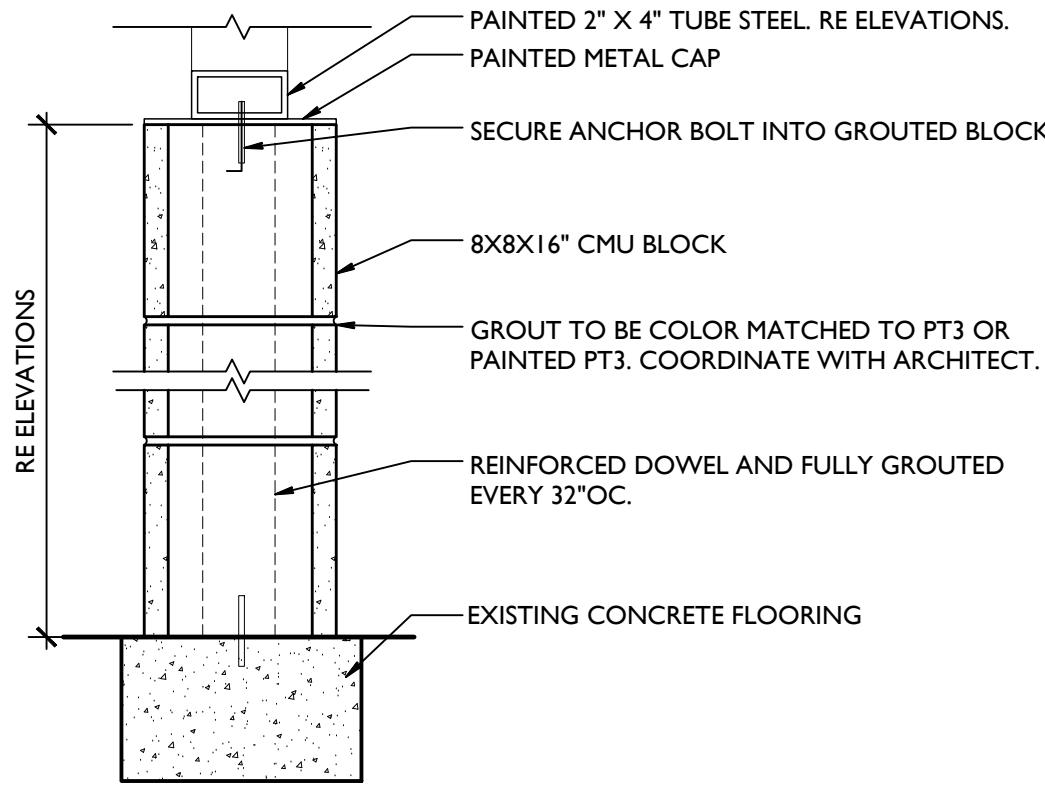
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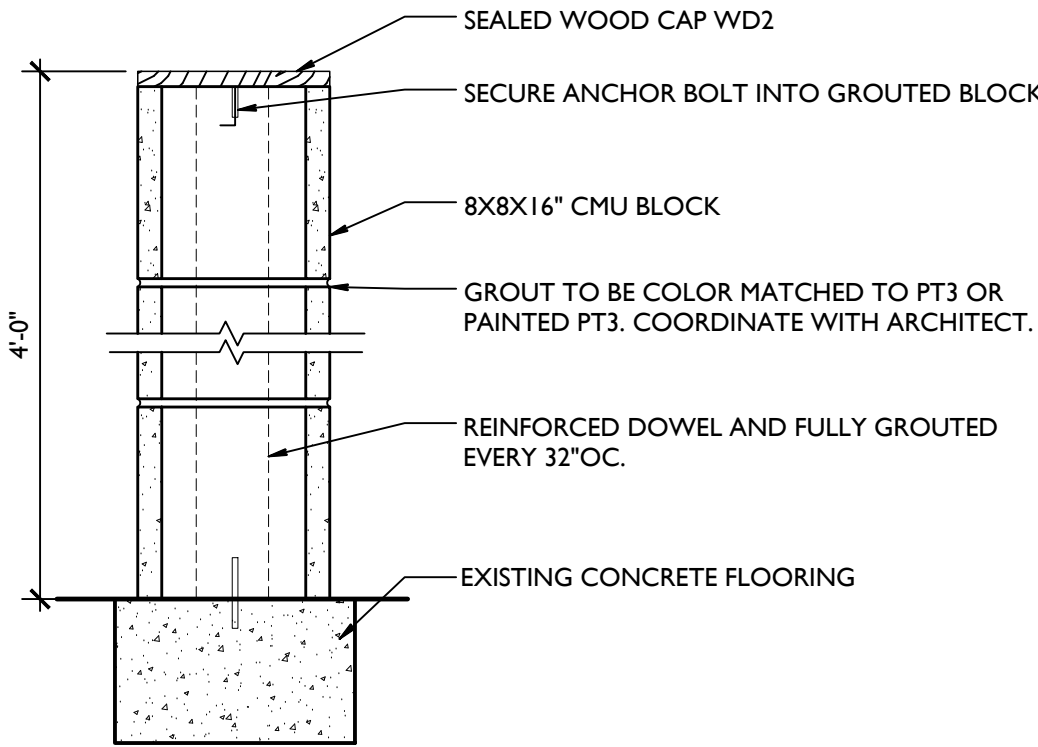
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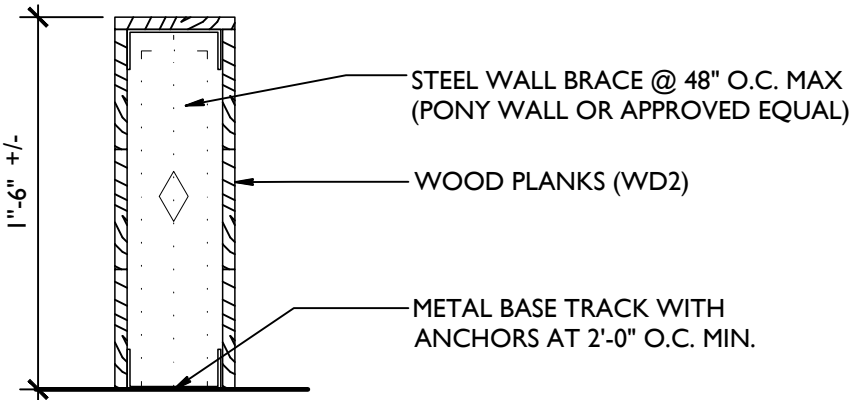
PH1



PH2



PH3



PH4

*** FINAL DESIGN TO BE APPROVED BY TENANT

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A002

PARTITION TYPES



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Summit Fair
840-M NW BLUE PKWY, SUITE M
LEE'S SUMMIT, MO 64086

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AD100

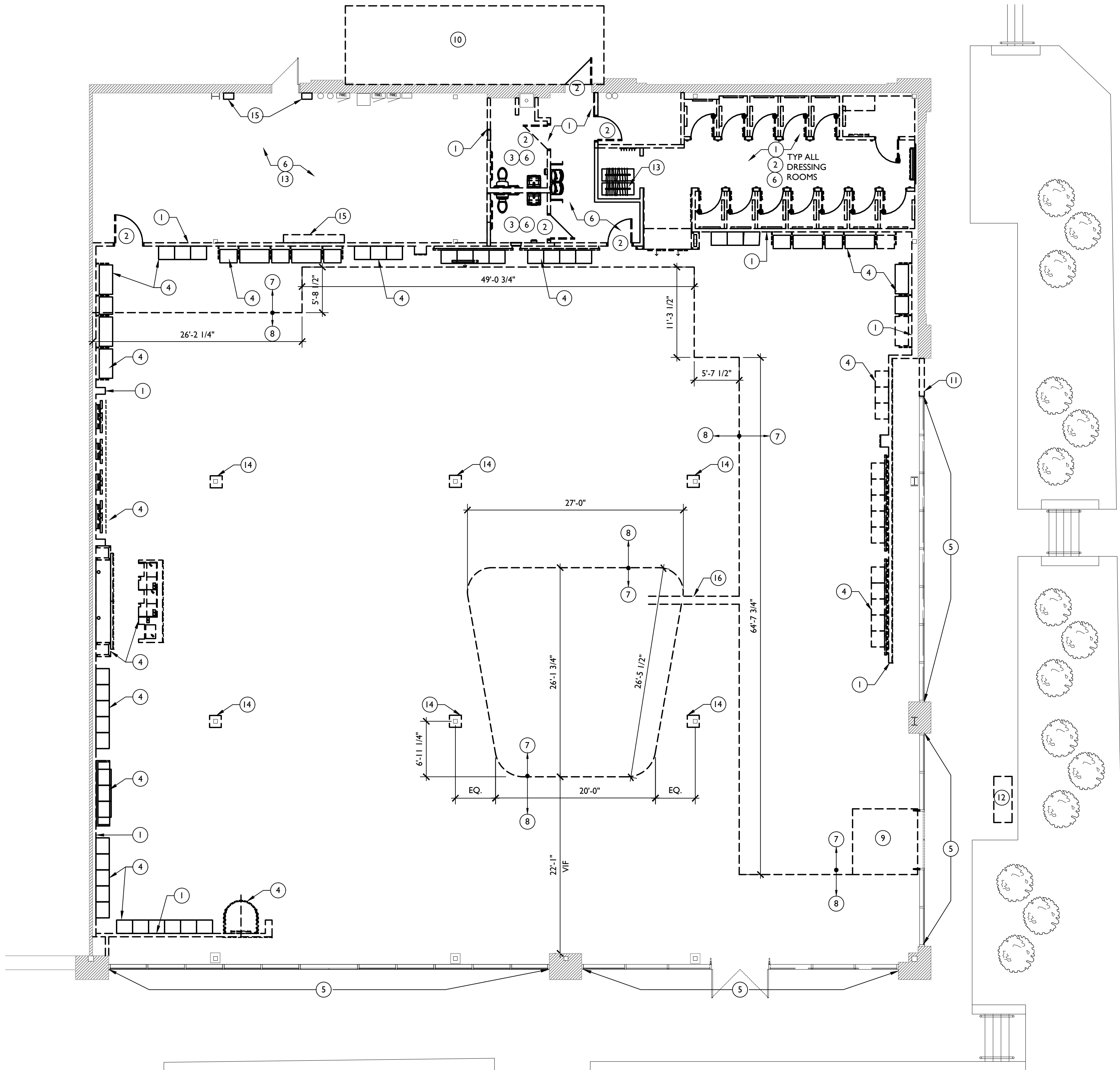
DEMOLITION PLAN

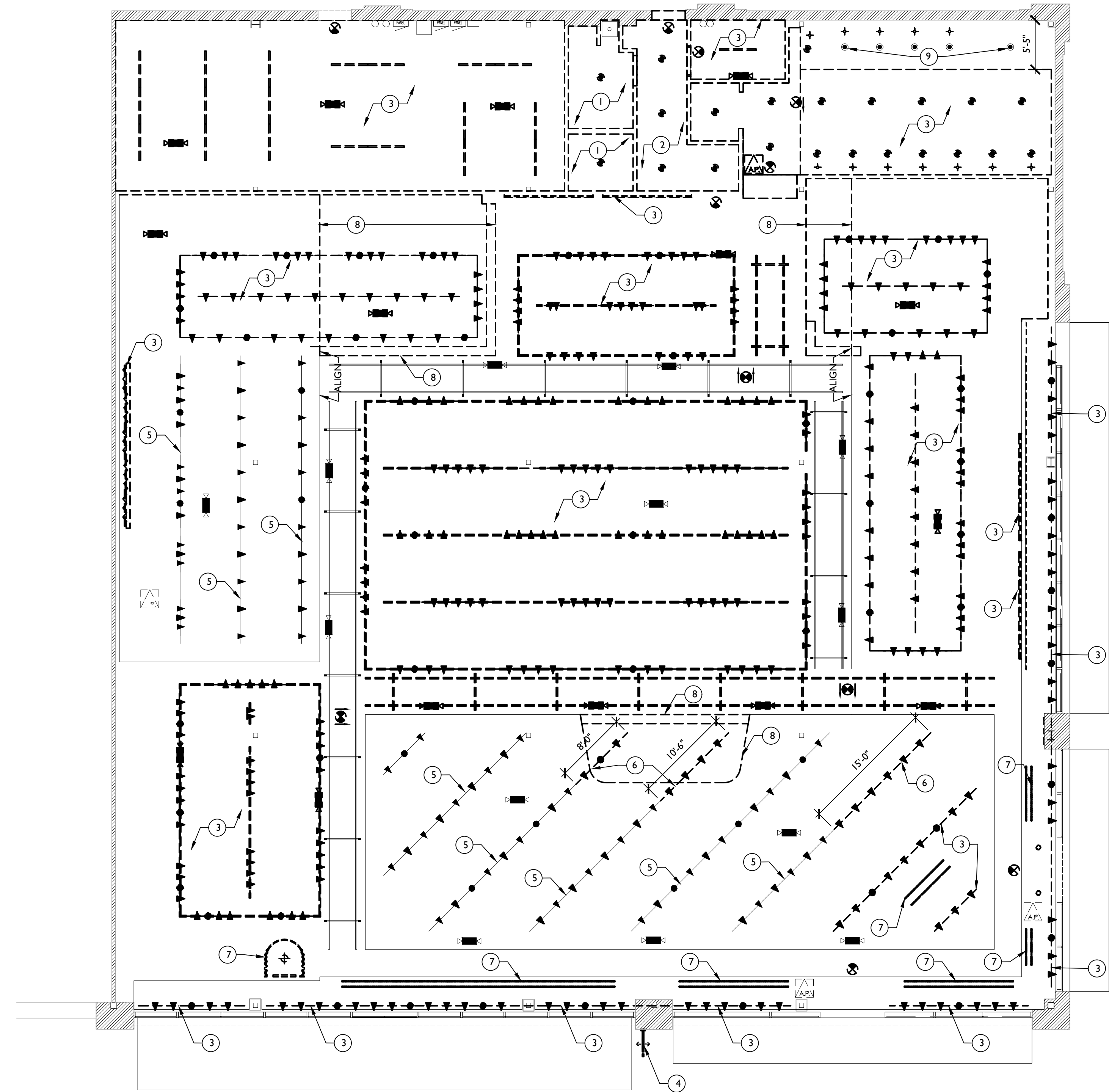
DEMOLITION PLAN GENERAL NOTES:

- ITEMS TO BE REMOVED ARE SHOWN WITH A DASHED (HIDDEN) LINE.
- ALL DIMENSIONS ARE +/-
- DO NOT ALLOW MATERIALS AND DEBRIS GENERATED BY DEMOLITION ACTIVITIES TO ACCUMULATE ON THE JOB SITE. REMOVE DAILY AND DISPOSE OF IN A LEGAL MANNER. NO ON SITE SALE OR BURNING OF REMOVED ITEMS IS PERMITTED.
- THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE ENTIRE SET OF CONSTRUCTION DRAWINGS. DO NOT REMOVE ANY ITEMS WITHOUT VERIFYING AND COORDINATING WITH ALL GENERAL TRADES AS TO HOW THEY RELATE TO THE OVERALL PROJECT. COORD ALL SITE WORK W/LANDLORD AS REQ'D.
- THE CONTRACTOR MUST MAINTAIN ADEQUATE SUPPORT, INSULATION, WATERPROOFING, EMERGENCY LIGHTING, SECURITY, ALARMS, ETC. FOR ALL OR PART OF ITEMS TO REMAIN.
- GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING ALL FIELD CONDITIONS AS CALLED FOR OR REQUIRED BY THE NEW WORK.
- GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION BARRICADES AS REQUIRED FOR DEMOLITION AND NEW WORK.
- EXISTING EXIT SIGNAGE, EGRESS LIGHTING, SECURITY CAMERAS, SWITCHES, OUTLETS, ETC. ARE NOT SHOWN FOR CLARITY AND ARE TO BE REMOVED UNLESS NOTED OTHERWISE. COORD. W/ MEP DEMO AND NEW WORK PLANS.
- CONTRACTOR TO PROTECT ALL EXISTING FINISHES, CEILINGS AND OTHER SURFACES SCHEDULED TO REMAIN THAT GETS DAMAGED DUE TO CONTRACTOR WORK SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO ENSURE PROJECT SITE IS SECURE AFTER BUSINESS HOURS. CONFIRM HOURS WITH LANDLORD AND TENANT.
- CONTRACTOR TO ENSURE THAT LIQUID OR DISRUPTIVE (SMELLY) WORK SHALL BE COORDINATED WITH LANDLORD AND TENANT.
- REMOVE ALL EXIT SIGNS THROUGHOUT. SIGNS TO BE REPLACES IN-KIND WITH NEW SPEC.
- REMOVE ALL SIGNAGE THROUGHOUT, INCLUDING EXTERIOR SIGNAGE AND ASSOCIATED ELEC. NOT REUSED IN NEW WORK. COORD. W/ TENANT.
- REMOVE ALL ABANDONED ELECTRICAL AND BLANK COVER PLATES THROUGHOUT. PATCH AND REPAIR WALL FOR NEW FINISH.
- REMOVE AND DISPOSE OF ALL BUILT-IN FURNITURE AND CASEWORK (TABLES, CASEWORK, WALL PANELS, WAINSCOTING, ARTWORK, SHELVING ETC.)
- FLOOR SHALL BE LEVELED AFTER REMOVAL OF FLOORING MATERIAL AND PREPPED FOR NEW FINISH. SEE PLAN FOR EXTENTS.
- PATCH AND FILL ALL HOLES AND VOIDS IN FLOOR SLAB.
- REMOVE ALL ROOM AND OCCUPANCY SIGNAGE LEFT BY PREVIOUS TENANT. PATCH AND REPAIR WALL FOR NEW FINISH.
- DEMO AND REMOVE ALL EXISTING WALL FINISHES (INCLUDING VINYL DECALS/WALLCOVERING). SKIMCOAT OR PREP WALLS TO RECEIVE NEW PAINTED WALL FINISH.
- REMOVE ALL WALL FINISHES THROUGHOUT.

DEMOLITION PLAN KEYED NOTES:

- REMOVE EXISTING PARTITION AS REQUIRED BY THE NEW WORK. TERMINATE AND CAP OFF ANY EXISTING UTILITIES NOT REUSED BY NEW WORK
- REMOVE AND DISPOSE OF EXISTING DOORS, FRAME, ASSOCIATED HARDWARE.
- REMOVE VANITY, PLUMBING FIXTURES AND ASSOCIATED FIXTURES & FINISHES.
- REMOVE AND DISPOSE OF ALL EXISTING CASEWORK. CAP OFF/ TERMINATE ANY EXISTING ELEC.
- REMOVE AND DISPOSE OF ALL EXISTING WINDOW FILM AND ADHESIVE.
- REMOVE ALL EXISTING FLOORING, BASE AND FRP. PREP FOR NEW WORK.
- REMOVE EXISTING TILE/WOOD FLOORING. KEEP NON DAMAGED TILES FOR REUSE IF NEEDED.
- MAINTAIN AND PROTECT EXISTING FLOORING.
- REMOVE AND DISPOSE OF WALK OFF INSERT.
- PREP SLAB AS REQUIRED FOR FUTURE COOLER.
- DEMO EXISTING PORTION OF STOREFRONT FOR NEW DOOR LOCATION.
- REMOVE EXTERIOR BENCH AND RETURN TO OWNER.
- REMOVE AND DISPOSE OF RETAIL RACKS AND STORAGE UNITS.
- REMOVE COLUMN WRAPS, MIRRORS AND BASE.
- RELOCATION OF AV/SECURITY, FIRE SYSTEM AND DOOR ALARM WILL BE REQUIRED.
- DEMO/SAW-CUT CONCRETE/TILE FOR NEW PLUMBING CHASE. FINAL LOCATION AND LENGTH TO BE COORDINATED WITH ARCHITECT, MEP AND F&B.





DEMOLITION REFLECTED CEILING PLAN GENERAL NOTES:

- ITEMS TO BE REMOVED ARE SHOWN WITH A DASHED (HIDDEN) LINE.
- ALL DIMENSIONS ARE +/-
- DO NOT ALLOW MATERIALS AND DEBRIS GENERATED BY DEMOLITION ACTIVITIES TO ACCUMULATE ON THE JOB SITE. REMOVE DAILY AND DISPOSE OF IN A LEGAL MANNER. NO ON SITE SALE OR BURNING OF REMOVED ITEMS IS PERMITTED.
- THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE ENTIRE SET OF CONSTRUCTION DRAWINGS. DO NOT REMOVE ANY ITEMS WITHOUT VERIFYING AND COORDINATING WITH ALL GENERAL TRADES AS TO HOW THEY RELATE TO THE OVERALL PROJECT. COORD ALL SITE WORK W/ LANDLORD AS REQ'D.
- THE CONTRACTOR MUST MAINTAIN ADEQUATE SUPPORT, INSULATION, WATERPROOFING, EMERGENCY LIGHTING, SECURITY, ALARMS, ETC. FOR ALL OR PART OF ITEMS TO REMAIN.
- GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING ALL FIELD CONDITIONS AS CALLED FOR OR REQUIRED BY THE NEW WORK.
- GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION BARRICADES AS REQUIRED FOR DEMOLITION AND NEW WORK.
- EXISTING EXIT SIGNAGE, EGRESS LIGHTING, SECURITY CAMERAS, SWITCHES, OUTLETS, ETC. ARE NOT SHOWN FOR CLARITY AND ARE TO BE REMOVED UNLESS NOTED OTHERWISE. COORD. W/ MEP DEMO AND NEW WORK PLANS.
- CONTRACTOR TO PROTECT ALL EXISTING FINISHES, CEILINGS AND OTHER SURFACES SCHEDULED TO REMAIN DURING ALL PHASES OF CONSTRUCTION. ANY SURFACES SCHEDULED TO REMAIN THAT GETS DAMAGED DUE TO CONTRACTOR WORK SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO ENSURE PROJECT SITE IS SECURE AFTER BUSINESS HOURS. CONFIRM HOURS WITH LANDLORD AND TENANT.
- CONTRACTOR TO ENSURE THAT LOUD OR DISRUPTIVE (SMELLY) WORK SHALL BE COORDINATED WITH LANDLORD AND TENANT.
- REMOVE ALL EXIT SIGNS THROUGHOUT. SIGNS TO BE REPLACES IN-KIND WITH NEW SPEC.
- PATCH CEILINGS AND WALLS WHERE LIGHTING AND/OR RETAIL FIXTURES ARE DEMO'D

DEMOLITION REFLECTED CEILING PLAN KEYED NOTES:

- REMOVE ALL EXISTING CEILING GRID, ACT AND LIGHTING FIXTURES.
- REMOVE ALL EXISTING GYP CEILING AND LIGHTING FIXTURES.
- REMOVE AND DISPOSE OF ALL LIGHT FIXTURES.
- REMOVE AND DISPOSE EXISTING EXTERIOR HANGING SIGN.
- REMOVE AND DISPOSE OF 50% OF EXISTING LIGHT HEADS ON TRACK. TRACK TO REMAIN.
- REMOVE ONLY INDICATED PORTION OF TRACK LIGHT. GC TO ENSURE THIS WILL NOT EFFECT REMAINING TRACK AND FUNCTION OF EXISTING FIXTURES.
- REMOVE RETAIL CEILING TRACKS AND RODS.
- REMOVE ONLY INDICATED PORTION OF SOFFIT. RE NEW WORK AS REFERENCE.
- MAINTAIN FIXTURES AND CEILING IN THIS LOCATION.



Craft Putt - Lee's Summit

Summit Fair
840-M NW BLUE PKWY, SUITE M
LEE'S SUMMIT, MO 64086

rev	issue	date
	PERMIT SET	07.29.2024

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AD150

DEMOLITION REFLECTED
CEILING PLAN





Craft Putt - Lee's Summit

Summit Fair
840-M NW BLUE PKWY, SUITE M
LEE'S SUMMIT, MO 64086

rev	issue	date
	PERMIT SET	07.29.2024

24.02 Craft Putt Lee's Summit

A100

FLOOR PLAN

FLOOR PLAN GENERAL NOTES:

- ALL DIMENSIONS TO EXISTING ITEMS ARE + / -
- DIMENSIONS FOR INTERIOR PARTITIONS ARE TO OUTSIDE FACE OF WALL FINISH.
- ALL PARTITIONS TO BE TYPE P1, UNLESS NOTED OTHERWISE.
- CONTRACTOR TO COORDINATE ALL MEP REQUIREMENTS.
- CONTRACTOR TO COORDINATE IT/AV/SECURITY SYSTEM WITH TENANTS VENDOR. PROVIDE CONDUIT AND PULL STRING FOR IT/AV/SECURITY WORK. COORDINATE WITH ELECTRICAL & IT/AV/SECURITY.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ALL BLOCKING AS REQUIRED FOR CASEWORK, LIGHT FIXTURES, ACCESSORIES, ETC.
- CONTRACTOR TO COORDINATE TENANT PROVIDED LCD & MOUNT LOCATIONS. PROVIDE POWER, CABLE AND BLOCKING AS REQUIRED.
- ALL STOREFRONT AND DOOR DIMENSIONS ARE TO FRAME EXTENTS. CONTRACTOR TO COORDINATE AND VERIFY ROUGH OPENINGS PRIOR TO ORDERING FRAMES AND DOORS.
- CONTRACTOR SHALL COORDINATE ALL CORE DRILL LOCATIONS WITH GAMES, ELECTRICAL AND I.T. LAYOUTS. PROVIDE FLUSH POKE THROUGH DEVICE.
- ALL CARD READERS, SWITCHES, CONTROLS, ETC TO COMPLY WITH A.B.A.A.S. (ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARD) REQUIREMENTS FOR MOUNTING HEIGHTS.
- CONTRACTOR TO ENSURE THAT LOUD OR DISRUPTIVE (SMELLY) WORK SHALL BE DONE AFTER BUSINESS HOURS. COORDINATE WITH LANDLORD AND TENANT.
- ALL CUSTOM ITEMS TO BE REVIEWED BY TENANT / ARCHITECT VIA SHOP DRAWINGS PRIOR TO FABRICATION.
- PROVIDE POWER & DATA FOR ALL POS LOCATIONS - COORD FINAL LOCATIONS WITH TENANT.
- ALL DECORATIVE WOOD ELEMENTS SHALL BE CONSTRUCTED OF MATERIALS WITH A CLASS C FLAME SPREAD INDEX OR BETTER.
- GC & FSEQ TO COORDINATE FINAL ROUTING OF BEER & SODA LINES WITH ARCH & MEP PRIOR TO INSTALLATION.
- COORD FINAL ROUTING OF BEER, SODA LINES WITH ARCH AND MEP PRIOR TO INSTALLATION.
- WHERE EXPOSED IN GUEST-FACING AREAS - ALL WIRING SHALL BE RUN IN CONDUIT PAINTED TO MATCH ADJACENT SURFACE COLOR

FLOOR PLAN KEY NOTES:

- EXISTING DOOR TO REMAIN AND TO BE PINED CLOSED. DOORS ARE NOT TO BE USED.
- NEW STOREFRONT WINDOWS AND DOOR SYSTEMS SHALL BE THERMALLY BROKEN FRAMES WITH 1" INSULATED GLASS UNITS TO IECC REQ'S. STOREFRONT SYSTEM IS TO MATCH ADJACENT STOREFRONT FINISHES AND MULLION SPACING.
- NEW FENCE SYSTEM. NEW MIN 3'-0" WIDE ACCESS GATE TO BE INTEGRATED INTO FENCE SYSTEM. GATE SHALL HAVE SELF-CLOSING HINGES AND NO LATCHING HARDWARE, AND SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL. FESTOON LIGHTING POLES TO BE PROVIDED REF TO RCP.
- NEW BLACK ALUM STOREFRONT SYSTEM. GLASS DOOR WITH FULL HEIGHT SIDELITE. SEE ELEVATIONS/ DOOR SCHEDULE.
- NEW 10'0" x 12'0" BLACK GARAGE DOOR WITH GLASS. CENTERED ON WALL. RE ELEVATIONS.
- CASEWORK TO BE LOCKING. AV AND SAFE TO BE ON ADJUSTABLE SHELVING.
- POS SYSTEM. PROVIDE POWER AND DATA. COORDINATE FINAL SYSTEM WITH TENANT.
- NEW CHECK-IN/RETAIL/LOCKER CASEWORK.
- ENSURE WALLS ALIGN.
- NEW DECORATIVE CMU BLOCK PARTIAL HEIGHT WALL. GROUT TO BE COLOR MATCHED TO PT3 OR PAINTED. TUBE STEEL AND PAINTED CHAIN LINK FENCE ABOVE. RE ELEVATIONS. REINFORCED BOWEL AND FULLY GROUTED EVERY 32"OC.
- FREE GAME/PODIUM. FLOOR MOUNTED IN FIXED POSITION. 42" AISLE MIN PER CODE. TYP ALL GAME LOCATIONS. GC TO PROVIDE POWER AS REQD.
- TENANT PROVIDED, GC INSTALLED WALL MOUNTED SPIN WHEEL AND BALL VENDING.
- EMPLOYEE LOCKERS - ULINE THREE TIER LOCKERS - 3' WIDE, ASSEMBLED, 36" WIDE, 18" DEEP, BLACK
- POWER NEEDED FOR TENANT PROVIDED GAME IS TO BE RUN FROM CEILING DOWN COLUMN.
- PATCH AND REPAIR DRYWALL FOR CONTINUOUS, SMOOTH & PLUMB FINISHED DRYWALL SURFACE IN PREPARATION FOR PAINTED MURAL. BY OTHERS.
- BANQUETTE SEATING WITH LIGHT SHELF AND TABLES TO BE COORDINATED WITH FOOD AND BEV AND ARCHITECT.
- CNC LASER CUT POWDER COATED METAL DIVIDERS. DIVIDER TO BE FIXED TO CEILING AND BANQUETTE.
- SCREENING TO MATCH EXTERIOR STONE AND STUCCO FINISHES PER LEES SUMMIT BUILDING REQUIREMENTS. FINAL DESIGN APPROVED BY OWNER. RE ELEVATIONS.
- STATIONARY GOLF CART BY TENANT.
- REFER TO FOOD SERVICE DRAWINGS FOR EQUIPMENT LAYOUT AND SPECIFICATIONS. GC TO COORDINATE INSTALL WITH TRIMARK.
- PERMANENT PROJECTION SCREEN. COORDINATE WITH AV VENDOR.
- EXISTING 48" SIDEWALK IS TO REMAIN PER LEES SUMMIT REQUIREMENTS.
- PUTT PUTT GAME AREA. GAME TO BE MOUNTED DIRECTLY OVER EXISTING FLOORING. CORE DRILL LOCATIONS WILL BE REQUIRED AT EACH HOLE. COURSE COMPLIES WITH 1007 MINIATURE GOLF FACULTIES CODE.

1007.3.1 START OF PLAY: A CLEAR FLOOR OR GROUND SPACE 48 INCHES (1220 MM) MINIMUM BY 60 INCHES (1525 MM) MINIMUM WITH SLOPES NOT STEEPER THAN 1:48 SHALL BE PROVIDED AT THE START OF PLAY.

1007.3.2 GOLF CLUB REACH RANGE AREA. THE GOLF CLUB REACH RANGE APPLIES TO ALL HOLES REQUIRED TO BE ACCESSIBLE. THIS INCLUDES ACCESSIBLE ROUTES PROVIDED ADJACENT TO OR, WHERE PROVIDED, ON THE PLAYING SURFACE OF THE HOLE.

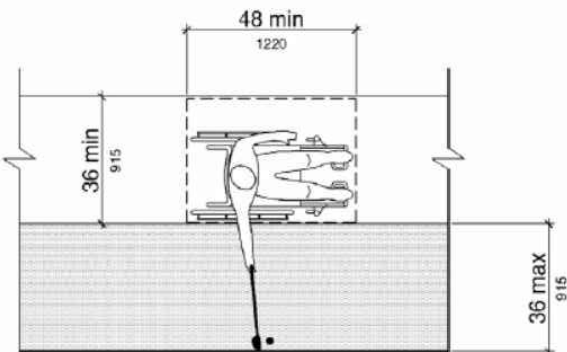
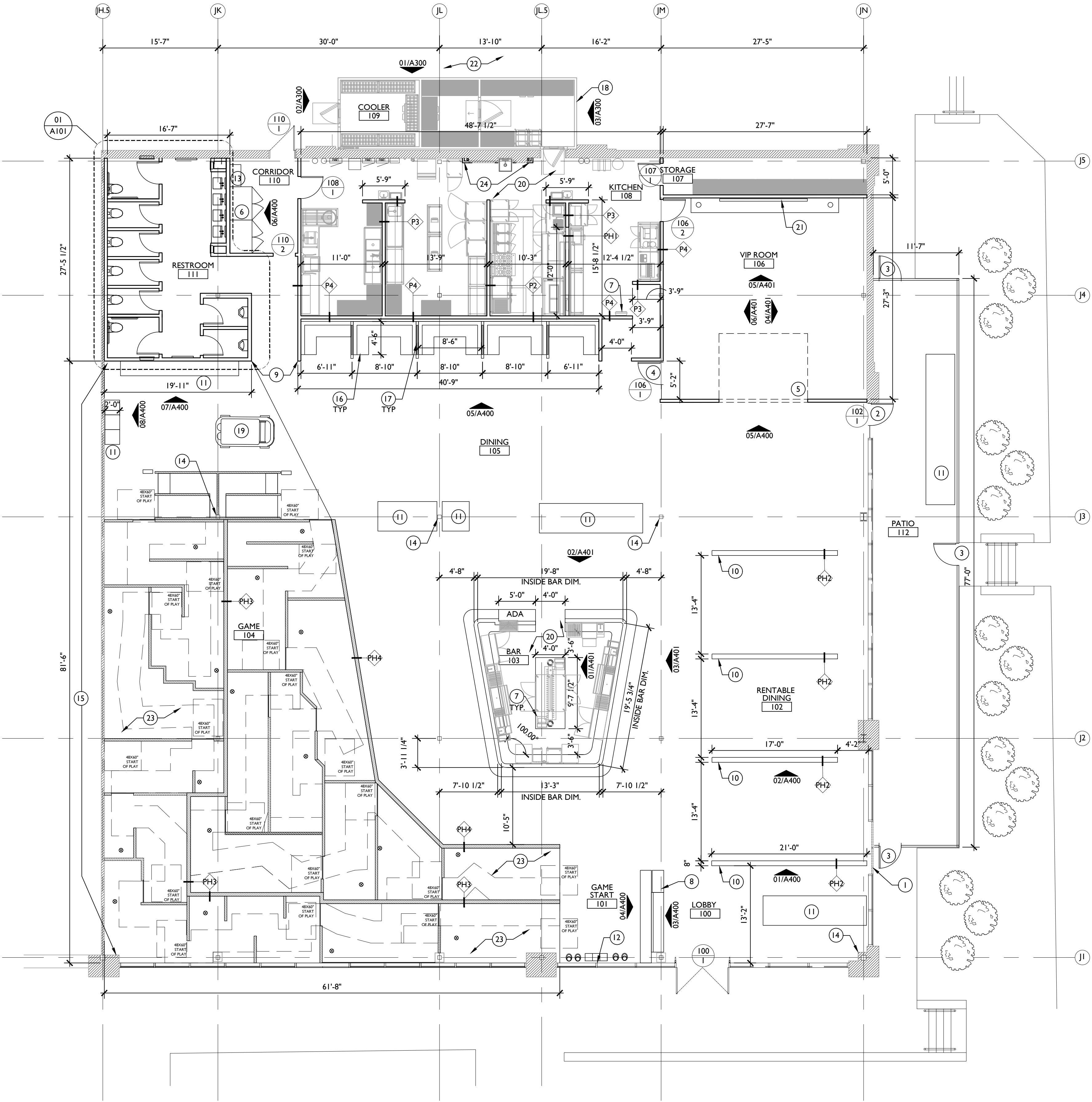


Figure 1007.3.2 Golf Club Reach Range Area

- COORDINATE FURRED-OUT WALL WITH ARCH & MEP TO HIDE VENT PIPE. HOLD VENT PIPE TIGHT TO INSIDE CORNER OF EXISTING WALL.





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Summit Fair
840-M NW BLUE PKWY, SUITE M
LEE'S SUMMIT, MO 64086

[illegible]

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A101

ENLARGED FLOOR PLAN

ENLARGED RESTROOM PLAN GENERAL NOTES:

1. ALL DIMENSIONS ITEMS ARE + / -
2. DIMENSIONS FOR INTERIOR PARTITIONS ARE TO OUTSIDE FACE OF WALL FINISH.
3. ALL SHUT-OFF VALVES SHALL BE INSTALLED TIGHT TO UNDERSIDE OF SINK BASIN, FULLY-CONCEALED.
4. PROVIDE DESIGNER P-TRAP. INSTALL TIGHT TO UNDERSIDE OF SINK BASIN. SUBMIT SPEC. FOR ARCHITECT APPROVAL.
5. GC TO SUBMIT ALL PLUMBING FIXTURE + ACCESSORY SPECS. TO ARCHITECT FOR REVIEW AND APPROVAL. NO EXCEPTIONS.
6. ALL CHANGES, DEVIATIONS, MODIFICATIONS, ADDITIONS OR DELETIONS FROM THE CONTRACT OF CONSTRUCTION OF APPROVED ARCHITECTURAL PLANS SHALL BE APPROVED BY THE TENANT AND ARCHITECT. WHEN UNAPPROVED DEVIATIONS ARE MADE, THE GC SHALL BE HELD LIABLE FOR ANY ERRORS, OMISSIONS, DELAYS AND SUPPLEMENTARY COSTS INCURRED (INCLUDING ARCHITECTURAL + ENGINEERING PROFESSIONAL SERVICE FEES) THAT MAY BE REQUIRED AS A RESULT OF THESE DEVIATIONS
7. SENSOR FLUSH VALVES FOR ALL TOILETS/URINALS
8. PROVIDE IN-WALL BLOCKING FOR ALL ADA COMPLIANT HANDRAILS - TYP.
9. REFER TO REF. TO MEP DRAWINGS FOR ALL MEP REQUIREMENTS
10. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ALL BLOCKING AS REQUIRED FOR ALL PLUMBING FIXTURES AND PLUMBING ACCESSORIES, TOILET/URINAL PARTITIONS, WALL MOUNT MIRRORS, ETC.
11. PROVIDE BLOCKING IN WALL AS REQ. FOR WALL MOUNTED MIRRORS AND WALL MOUNTED VANITIES. GC TO PROVIDE POWER AS REQUIRED.

FLOOR PLAN KEY NOTES:

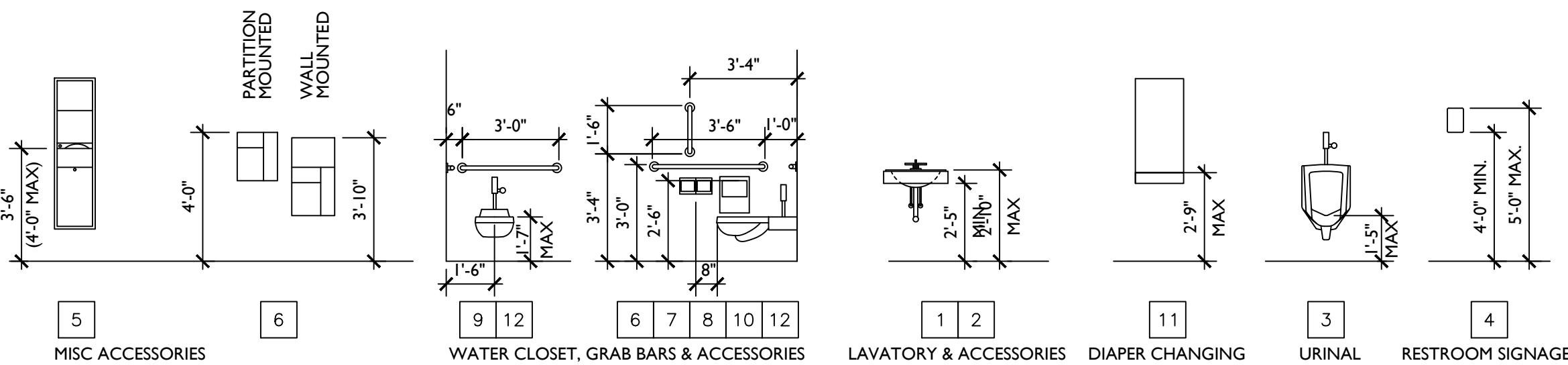
1. **UNDERMOUNT SINK:**
BADELCO - UNDERMOUNT RAMP SINK UB-04.M.
BLANCO BRILLIANT (WHITE GLOSS)
2. **FAUCET SPECIFICATION:**
VIGO NOMIA SINGLE HOLE BATHROOM FAUCET IN BLACK.
FAUCETS: PROVIDE DESIGNER P-TRAP. SUBMIT SPEC. FOR ARCHITECT REVIEW. ALL SHUT-OFF VALVES SHALL BE INSTALLED TIGHTLY TO UNDERSIDE OF SINK BASIN, FULLY-CONCEALED.
3. **COUNTER MOUNT SOAP DISPENSER:**
VIGO BOLTON SOAP DISPENSER IN MATTE BLACK, VGS0005MB
4. **BABY CHANGING TABLE:**
KOALA KARE, RECESSED STAINLESS VERTICAL CHANGING STATION; #KB111-SSRE; STAINLESS; 24" W X 4" D.
5. **TOILET PAPER DISPENSER:**
SURFACE MOUNTED TOILET TISSUE;
BOBRICK, B-2888 (OR APPROVED EQ.)
6. **SANITARY NAPKIN DISPOSAL:**
SURFACE MOUNTED SANITARY NAPKIN;
BOBRICK B-254, (OR APPROVED EQ.)
7. **PAPER TOWEL DISPENSER:**
SEMI-RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE; BOBRICK, B-38032 (OR APPROVED EQ.)
8. **VANITY MIRRORS:**
WOODEN 24 IN. W X 48 IN. H RECTANGULAR ROUNDED CORNER METAL FRAMED WALL MOUNTED BATHROOM WALL MIRROR, MODEL # BK1848 STORE SKU # 10100289 (OR APPROVED EQ.) MIRROR TO HAVE SECURITY MOUNTING HARDWARE
9. **FULL HEIGHT MIRRORS:**
36 IN. W X 72 IN. H RECTANGULAR OVERSIZED BLACK ALUMINUM FRAMED ROUNDED FULL LENGTH MIRROR
MODEL # B18191 STORE SKU # 101037779 (OR APPROVED EQ.) MIRROR TO HAVE SECURITY MOUNTING HARDWARE
10. **DRINK SHELF SPECIFICATION:**
BOBRICK; 16" STAINLESS SHELF B6-295x16 (OR APPROVED EQ.).
SURFACE MOUNT DRINK SHELF ABOVE ALL URINALS. COORD. INSTALL HEIGHT IN-FIELD W/ ARCHITECT
11. **FRAMED CANVAS ARTWORK 24"x24" - ARTWORK TO HAVE SECURITY MOUNTING HARDWARE. COORDINATE WITH SIGN VENDOR.**
12. **DOOR HOOK:**
AMAZON - BETTER HOUSEWARE MOUNTABLE SILVER ALUMINUM CROCODILE HOOK 4" WIDE 4" LENGTH - HANDCRAFTED ALUMINUM HOOK WITH JEWEL EYES, WHIMSICAL CLOTHING OR COAT HOOK.
13. **DOOR STOP:**
MOCKETT D56 - 1-3/16" CYLINDRICAL DOOR STOP. STAINLESS. (OR APPROVED EQ.)
14. **GRAB BARS:**
BOBRICK; B-6806 SERIES, 18", 36" AND 42" GRAB BARS. (OR APPROVED EQ.)
15. **ENSURE COLUMN IS FULLY CONCEALED WITHIN WALL.**
16. **GC TO INVESTIGATE EXISTING WALL TO CONFIRM IF BABY CHANGING STATION CAN BE IN THIS LOCATION. ONLY ONE BABY STATION IS REQUIRED BY CODE.**

RESTROOM TAG LEGEND & SPECIFICATIONS

- | | | | | | |
|---|--|----|--------------------------|----|-------------------------|
| 1 | SINK & DRAIN | 6 | SANITARY NAPKIN DISPOSAL | 11 | DIAPER CHANGING STATION |
| 2 | FAUCET | 7 | TOILET PAPER DISPENSER | 12 | TOILET |
| 3 | URINAL | 8 | 18" VERTICAL GRAB BAR | | |
| 4 | RESTROOM SIGNAGE | 9 | 36" GRAB BAR | | |
| 5 | WASTE RECEPTACLE / PAPER TOWEL DISPENSER | 10 | 42" GRAB BAR | | |
- * ALL ACCESSORIES SHALL BE INSTALLED TO PROTECT STRUCTURAL ELEMENTS

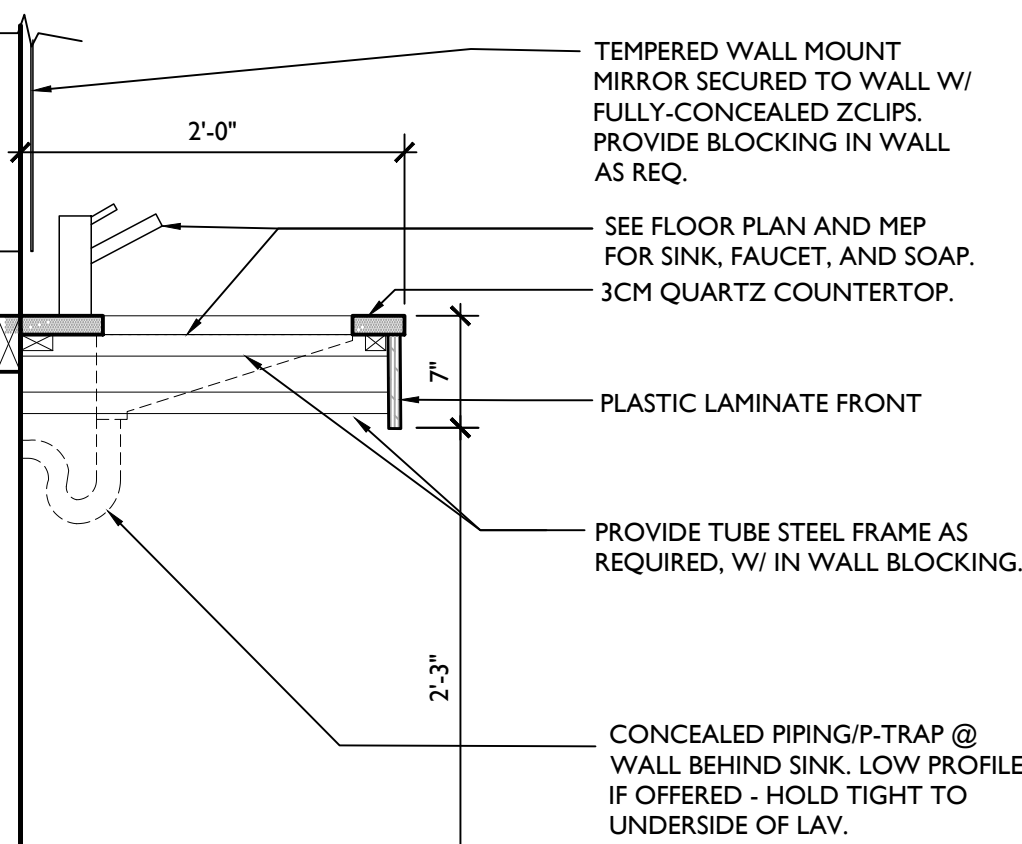
* ALL ACCESSORIES SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE

ADULT STANDARD MOUNTING HEIGHTS



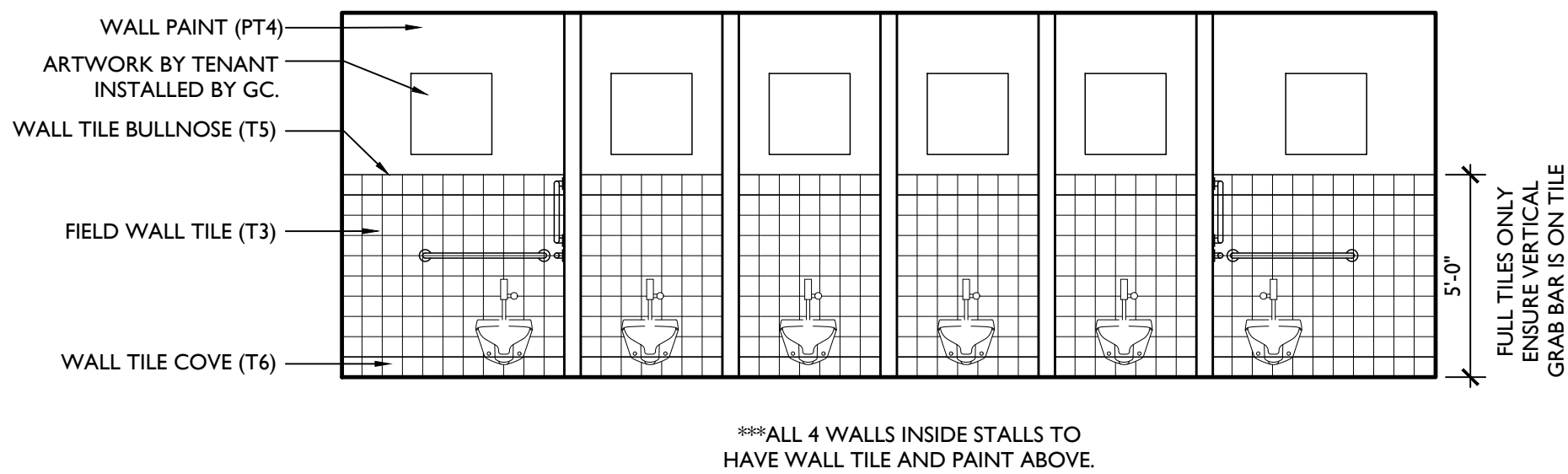
05 Interior Section

Scale 1" = 1'-0"



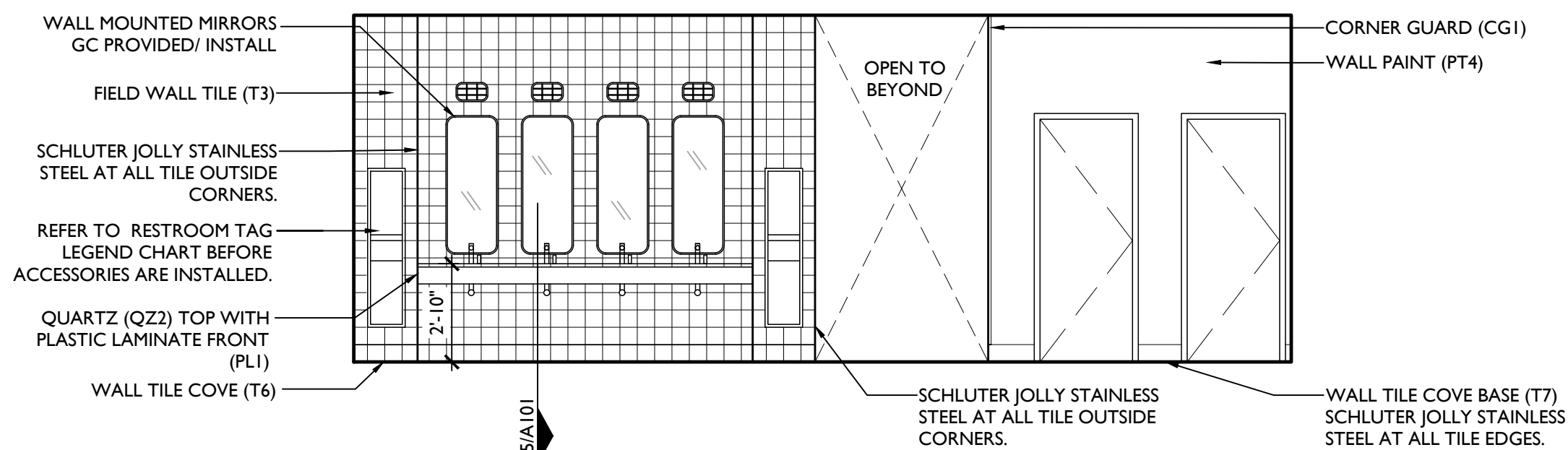
04 Restroom Legend

Scale 1/4" = 1'-0"



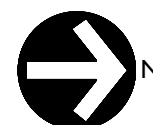
03 Interior Elevation

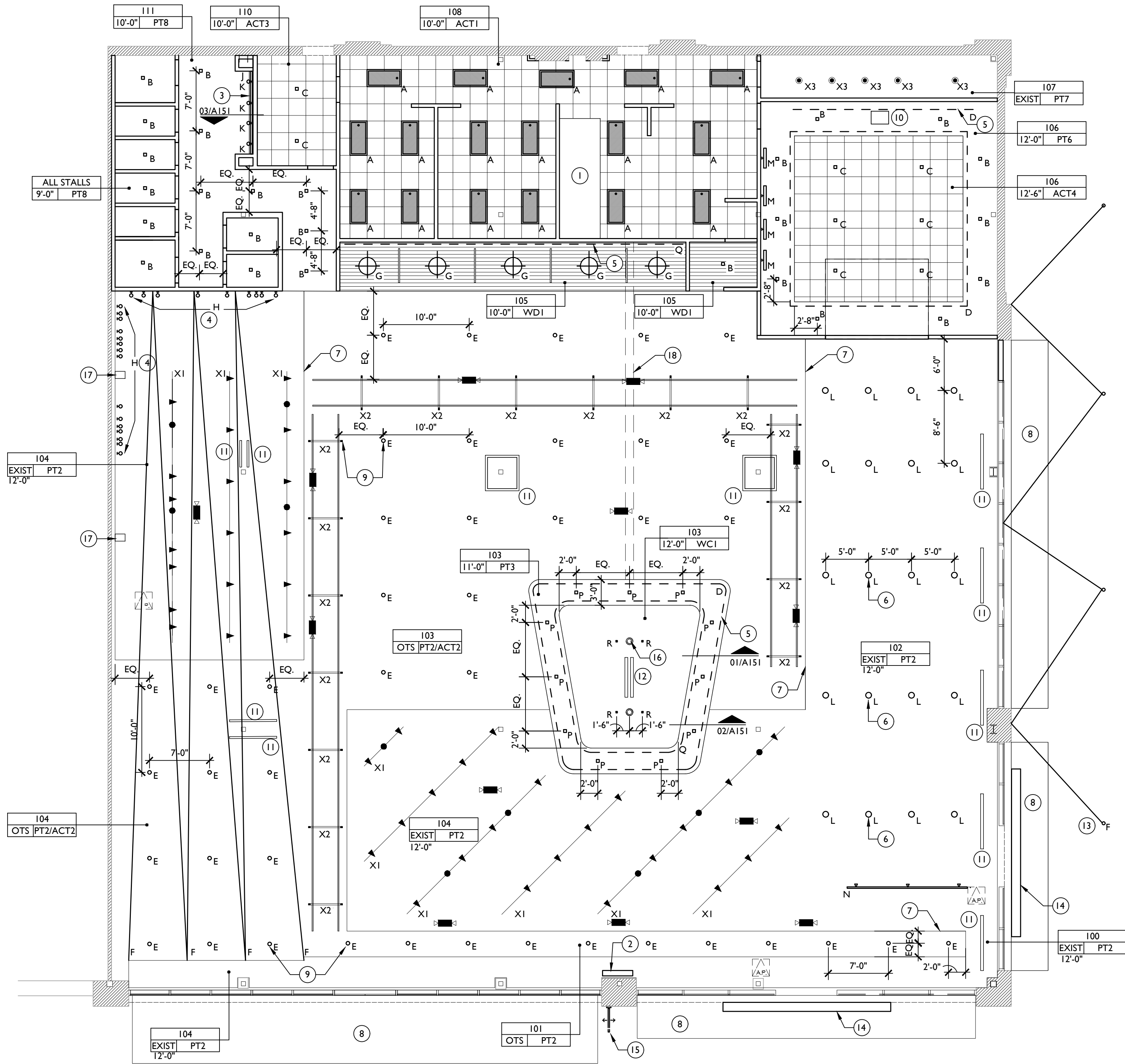
Scale 1/4" = 1'-0"



01 | Floor Plan

Scale 1/4" = 1'-0"





REFLECTED CEILING PLAN GENERAL NOTES:

1. ALL DIMENSIONS TO EXISTING ITEMS ARE + / -
2. CONTRACTOR TO COORDINATE ALL MEP REQUIREMENTS.
3. CONTRACTOR TO COORDINATE IT/AV/SECURITY SYSTEM WITH TENANTS VENDOR. PROVIDE CONDUIT AND PULL STRING FOR IT/AV/SECURITY WORK. COORDINATE WITH ELECTRICAL & IT/AV/SECURITY.
4. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT BACK TO ARCHITECT ANY CONFLICTS THAT MAY AFFECT DESIGN INTENTIONS SHOWN ON PROJECT DOCUMENTS.
5. REFER TO MEP DRAWINGS FOR ALL EMERGENCY AND EXIT LIGHTING REQUIREMENTS.
6. CONCEAL ALL CONDUIT TO LIGHT FIXTURES, EXIT DEVICES AND EMERGENCY LIGHTING IN WALL OR IN HARD PIPE CONDUIT.
7. ALL CEILINGS TO BE OPEN TO STRUCTURE, UNLESS NOTED OTHERWISE. ALL EXPOSED STRUCTURE, CONDUIT AND DUCTWORK TO BE PAINTED.
8. CENTER LIGHTS WITHIN SOFFIT AND TILES U.N.O
9. COORDINATE MOUNTING HEIGHTS OF ALL PENDANT LIGHTS IN FIELD WITH ARCHITECT U.N.O
10. PROVIDE NEW CLEAR, EDGE LIT EXIT SIGNS U.N.O. REFER TO ELECTRICAL DRAWINGS FOR SPECIFICATION.
11. CONTRACTOR TO ENSURE THAT LOUD OR DISRUPTIVE (SMELLY) WORK SHALL BE DONE AFTER BUSINESS HOURS. COORDINATE WITH LANDLORD AND TENANT.
12. CONTRACTOR SHALL COORDINATE BLOCKING REQUIREMENTS OF ALL ITEMS IN SCOPE TO PROVIDE BLOCKING AS NEEDED FOR INSTALLATION AND SUPPORT.
13. ALL SOFFIT AND WALLS IN OPEN STRUCTURE AREAS SHOULD CONTINUE TO STRUCTURE. MATCH EXISTING SOFFITS.
14. PATCH AND PAINT ALL DAMAGED CEILINGS/SOFFITS FROM FIXTURE AND HVAC REMOVAL.
15. PAINT ALL EXPOSED/OPEN STRUCTURE, DUCTING, CONDUIT, ETC. PT2.
16. IN FEATURE ROOMS: RESTROOM, VIP ROOM, BAR SOFFIT, ETC) PAINT ALL CEILING DUCKING/GRILLS TO MATCH ADJACENT ACCENT PAINT COLOR.

REFLECTED CEILING PLAN KEYED NOTES:

1. PROVIDE ALLOWANCE FOR STRUCTURAL SUPPORT/TIE-BACK AS REQUIRED AT HOODS, PER FINAL KITCHEN EQ PLANS AND EQ SPECS.
2. WALL MOUNTED DECORATIVE MARQUEE LETTERS. PROVIDE POWER AS REQUIRED. FINAL DESIGN BY SIGNAGE COMPANY. COORDINATED BY GC APPROVED BY TENANT AND ARCHITECT. SIGN COMPANY RECOMMENDATION - MIDTOWN SIGNS dennis@midtownsigns.com
3. RECESSED COVE WITH LIGHT FIXTURE.
4. FIXTURE H IS TO BE WALL MOUNTED WITH EXPOSED CONDUIT. RE ELEVATIONS FOR LAYOUT.
5. LED TAPE LIGHT IS BELOW IN CASEWORK.
6. FIXTURES TO BE CENTERED BETWEEN PARTIAL HEIGHT WALLS.
7. NEW SOFFIT TO ALIGN WITH EXISTING SOFFIT. RETURN SIDE FACE TO DECK TO MATCH ADJACENT SIDEWALL.
8. EXISTING EXTERIOR AWNING TO REMAIN.
9. FIXTURES TO ALIGN.
10. CEILING MOUNTED ULTRA SHORT THROW PROJECTOR. FINAL SPECIFICATION SHOULD BE COORDINATED WITH AN AV CONSULTANT. PROJECTOR TO BE BLACK.
11. CEILING AND COLUMN MOUNTED TVS. GC TO PROVIDE BLOCKING. ALL EXPOSED TV SUPPORTS TO BE BLACK. COORD SUPPORT BRACKETS WITH TENANT & ARCH.
12. CEILING MOUNTED TAP SYSTEM AND CEILING MOUNTED TV ON ANGLED BRACKETS. PROVIDE POWER / DATA / CABLE PER MEP. GC TO COORDINATE WITH F&B.
13. EXTERIOR LIGHTING INTEGRATED INTO NEW FENCE SYSTEM.
14. EXTERIOR SIGNAGE "CRAFT PUTT" FINAL SIGN TO BE APPROVED BY OWNER/TENANT. DESIGN INTENT; FREE STANDING LETTER SIMILAR TO DICKS SPORTING GOOD AT SUMMIT FAIR. SIGN TO HAVE POWER. GC TO COORDINATE WITH SIGN VENDOR.
15. NEW EXTERIOR SIGNAGE TO MATCH SUMMIT FAIR STANDARDS. FINAL SIGN TO BE APPROVED BY TENANT.
16. BEER LINE WILL RUN FROM EXTERIOR COOLER ABOVE THE CEILING AND INTO BEER TAP SYSTEM. GC TO COORDINATE WITH F&B ON INSTALL.
17. PATCH AND FILL SOFFIT WHERE PARTITION WAS REMOVED.
18. WHERE VISIBLE AT THE FOH - CONCEAL BEER-LINES IN CONDUIT - PAINT PT2. COORDINATE HANGER DETAILS WITH TAP PROVIDER AND ARCH.

LIGHT FIXTURE SCHEDULE	
A	BASIS OF DESIGN: RECESSED TROFFER - 2'X4'. RATED FOR COMMERCIAL KITCHEN USE.
B	4"x4" LED SQUARE CAN LIGHT SPEC: LITHONIA LIGHTING - LDN45Q, COLOR: BLACK. OR APPROVED EQ.
C	BASIS OF DESIGN: 4"x4" LED SQUARE CAN LIGHT FOR ACT. COLOR: BLACK.
D	TAPE LIGHT SPEC: DIODE LED - DI-12V-BLSC2-30-016-IES W/ DIMMING POWER SUPPLY, PROVIDE INSTALLATION CHANNEL OR APPROVED EQ.
E	5" LED PENDANT CABLE MOUNT ROUND CYLINDER LIGHT SPEC: NORA LIGHTING, NYLM COLOR: BLACK OR APPROVED EQ.
F	INDOOR/OUTDOOR STRING LIGHTS SPEC: SUNTHIN 48FT STRING LIGHTS, COLOR: BLACK. OR APPROVED EQ.
G	DECORATIVE PENDANT - VISO, GLOBO PENDANT, LED, WHITE, LARGE, 19.7"
H	DECORATIVE 7" W WALL SCONCE - RE ELEVATIONS FOR QUANTITY SPEC: ACCESS LIGHTING; NAUTICUS SINGLE LIGHT LED; 20294-SAT/1ST
J	COVE LIGHT BASIS OF DESIGN: ALCON LIGHTING - 4-INCH OPTIC HEIGHT PERIMETER LED COVE RECESSED LIGHT, OR APPROVED EQ.
K	WALL SCONCE - LIGHTLOY - NAUTICUS OVAL OUTDOOR BULKHEAD WALL / CEILING LIGHT #ACC83697, BLACK
L	SURFACE MOUNTED 6" CYLINDER, COLOR: BLACK
M	DECORATIVE WALL SCONCE - CERNO, CERNO ROUND PROFILE LED ART LIGHT, 24", GOLD, STANDARD DIRECT MOUNT, HARDWIRED
N	BASIS OF DESIGN: TRACK LIGHTING, COLOR: BLACK
P	4"x4" LED SQUARE CAN LIGHT SPEC: LITHONIA LIGHTING - LDN45Q, COLOR: WHITE. OR APPROVED EQ.
Q	COVE LIGHT SPEC: KLUS 45-ALU EXTRUSION - B4023ANODA COLOR: SILVER ANODIZED W/ TAPE LIGHT ON DIMMING POWER SUPPLY OR APPROVED EQ.
R	2"x2" LED SQUARE CAN LIGHT SPEC: LITHONIA LIGHTING - LDN45Q, COLOR: WHITE. OR APPROVED EQ.
X1	EXISTING TRACK LIGHTING PAINT CEILING TRACK AND FIXTURE HOUSING TO ALIGN WITH CEILING COLOR.
X2	EXISTING LINEAR LIGHTING ON TRACK SYSTEM PAINT TRACK/CABLES AND FIXTURE HOUSING TO ALIGN WITH CEILING COLOR.
X3	EXISTING CAN LIGHTS TO REMAIN.
*NOTE: <ul style="list-style-type: none">- ALL LAMPS SHALL BE 3500K COLOR TEMPERATURE- ALL FIXTURES TO BE ON DIMMERS.- CONTRACTOR TO SUBMIT CUTSHEETS FOR ALL FIXTURES FOR ARCHITECT APPROVAL PRIOR TO INSTALLATION.- ALL DECORATIVE SIGNAGE TO BE PROVIDED BY TENANT/SIGNAGE VENDOR. GC TO COORDINATE.	



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A150

REFLECTED CEILING PLAN



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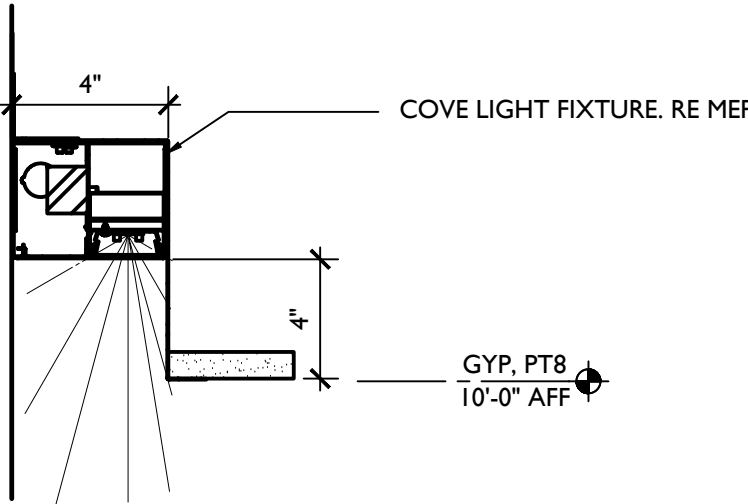
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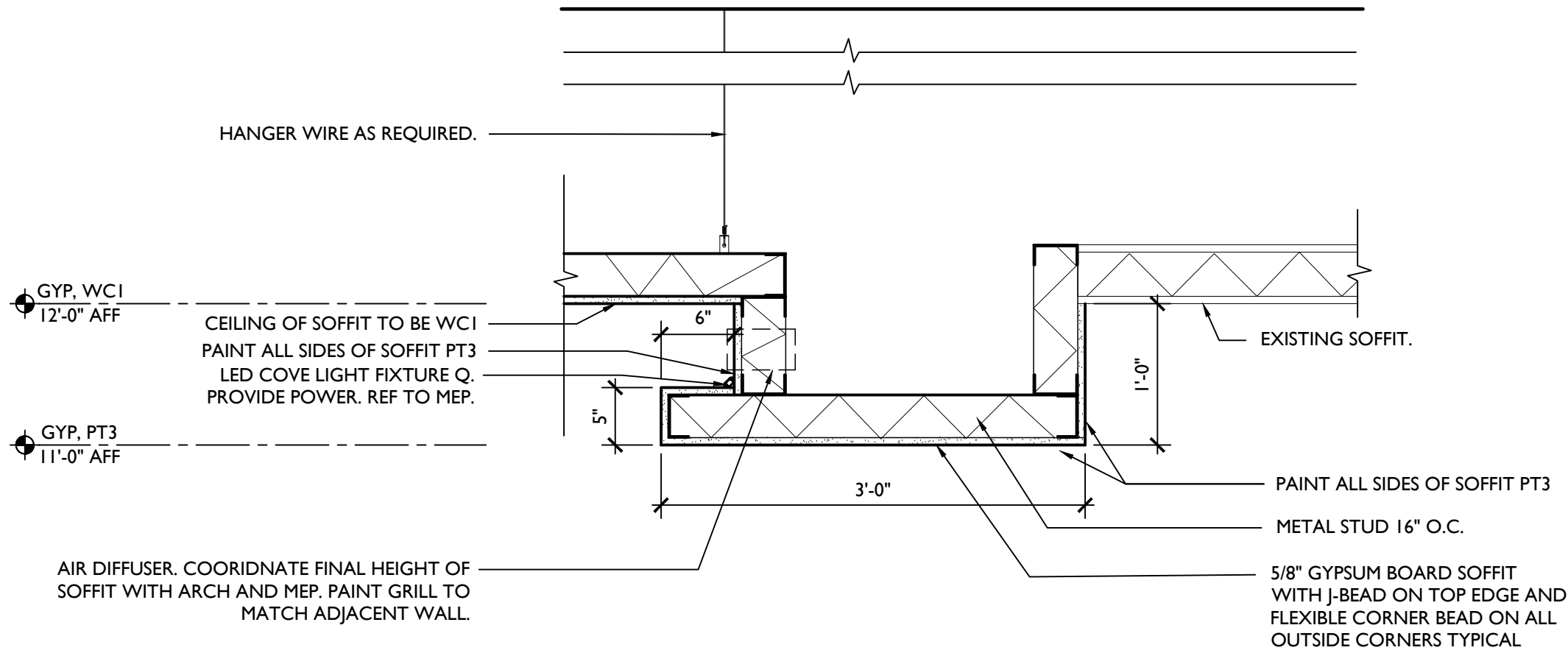
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A151

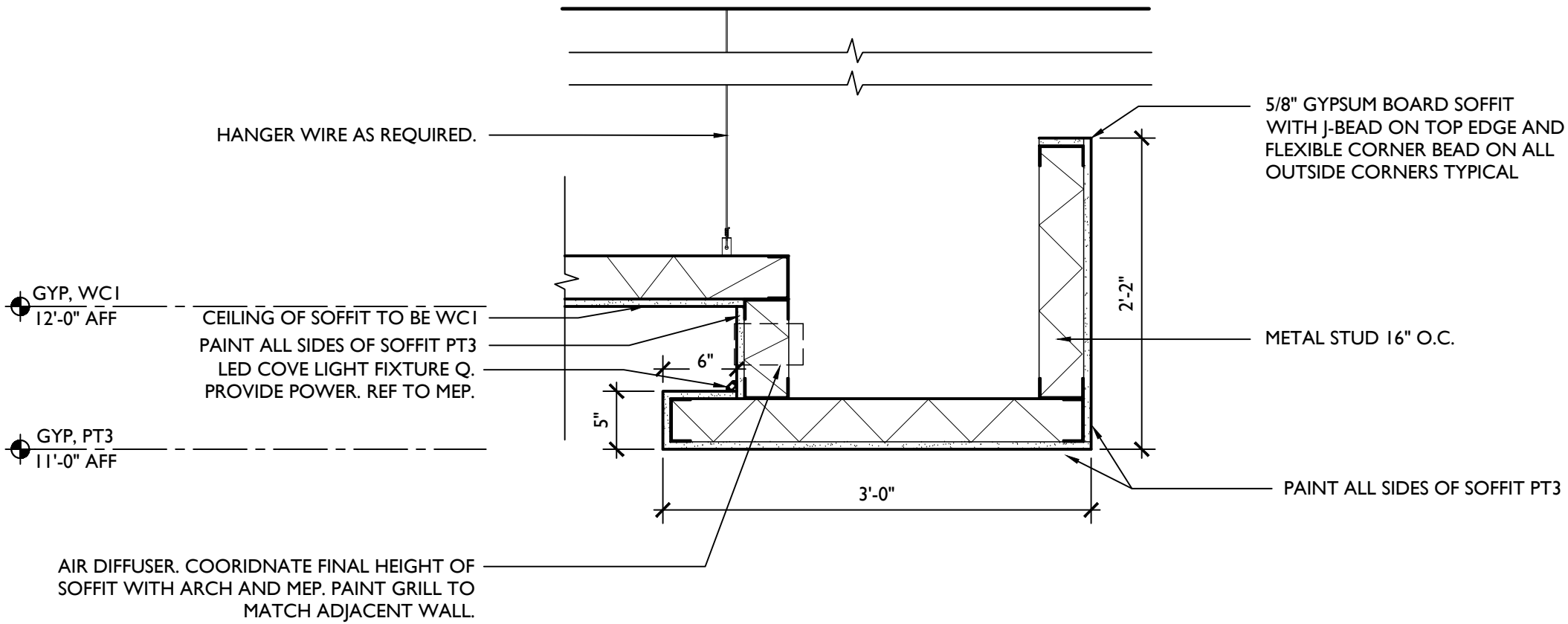
CEILING DETAILS



03 Ceiling Detail
Scale NTS



02 Ceiling Detail
Scale 1" = 1'-0"



01 Ceiling Detail
Scale 1" = 1'-0"



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ROOF PLAN

FLOOR PLAN GENERAL NOTES:

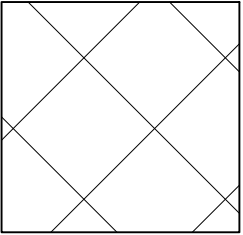
- EXISTING ROOF CONSTRUCTION IS 1-1/2" MTL DECK WELDED TO SUPPORT FRAME.
- COORD ALL NEW ROOF PENETRATIONS WITH ARCH AND MEP.
- INSTALL ALL EQUIPMENT, CURBS, PIPE PENETRATIONS PER MANUFACTURER DETAILS.
- PATCH AND REPAIR EXISTING TPO ROOFING AS REQUIRED AT NEW PENETRATIONS

General Code Related Notes:

Per 2019 IBC 1606.2 Design dead load. For purposes of design, the actual weights of materials of construction and fixed service equipment shall be used. In the absence of defince information, values used shall be subject to the approval of the building official

Unified Development Ordinance Article 8, Section 8.180 E Roof mounted equipment - All roof-mounted equipment shall be screened entirely from view by using parapet walls at the same height as the mechanical units. For additions to existing buildings that do not meet this standard, individual screens will be permitted, with the design subject to approval by the Director.

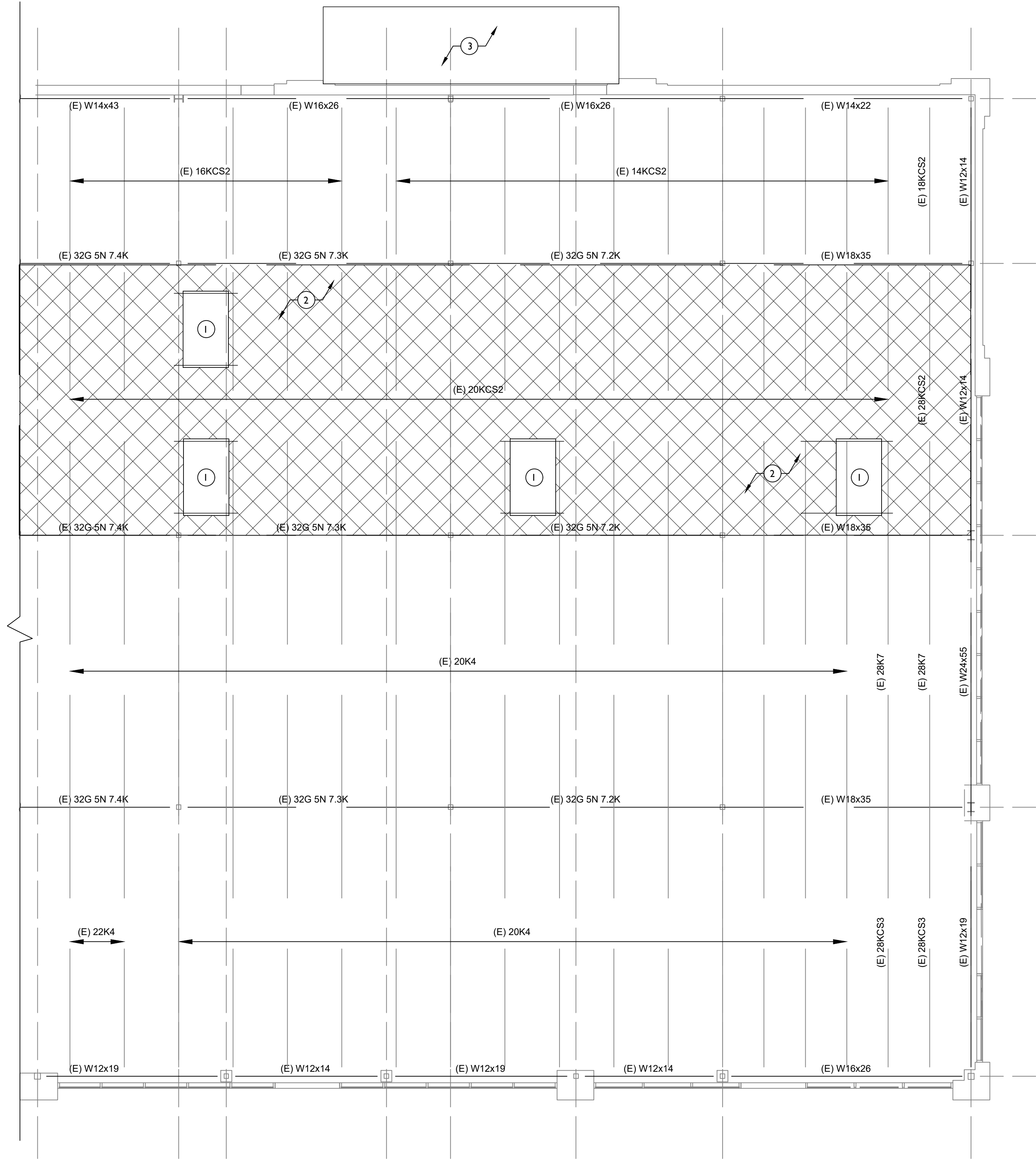
RTU / EQ_ZONE

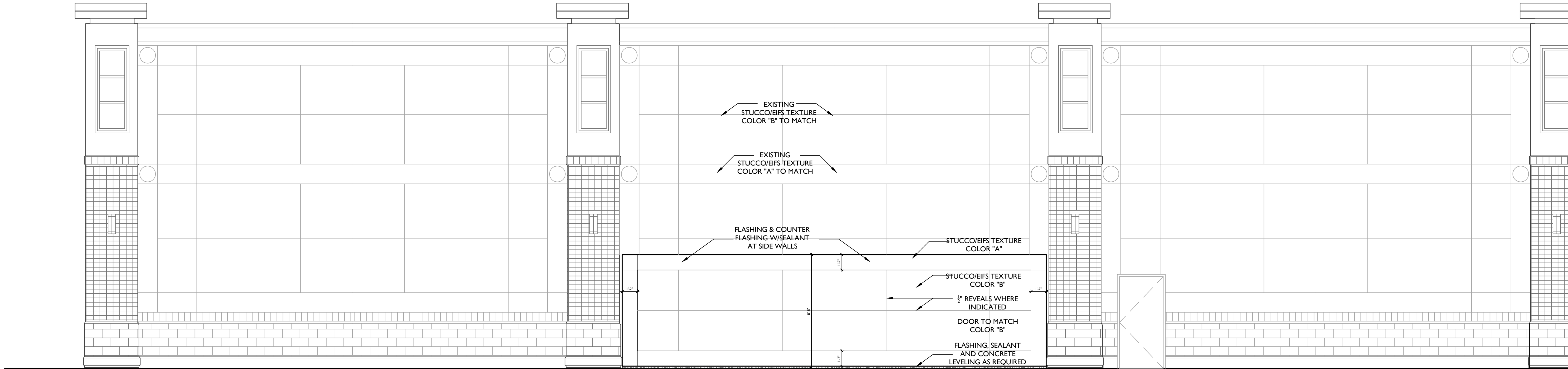


HATCHED AREA DENOTES EXISTING RTU_ZONE WHICH HAS BEEN DESIGNED FOR 2000 LB MAX PER UNIT WEIGHT (COMBINED CURB AND TRU OPERATING WEIGHT). IF WEIGHTS EXCEED THIS LIMIT, NOTIFY ARCHITECT AND ENGINEER. RTU'S AND MISC EQUIPMENT SHALL BE ARRANGED SO THAT NO MORE THAN ONE RTU SHALL LOAD THE SAME JOIST.

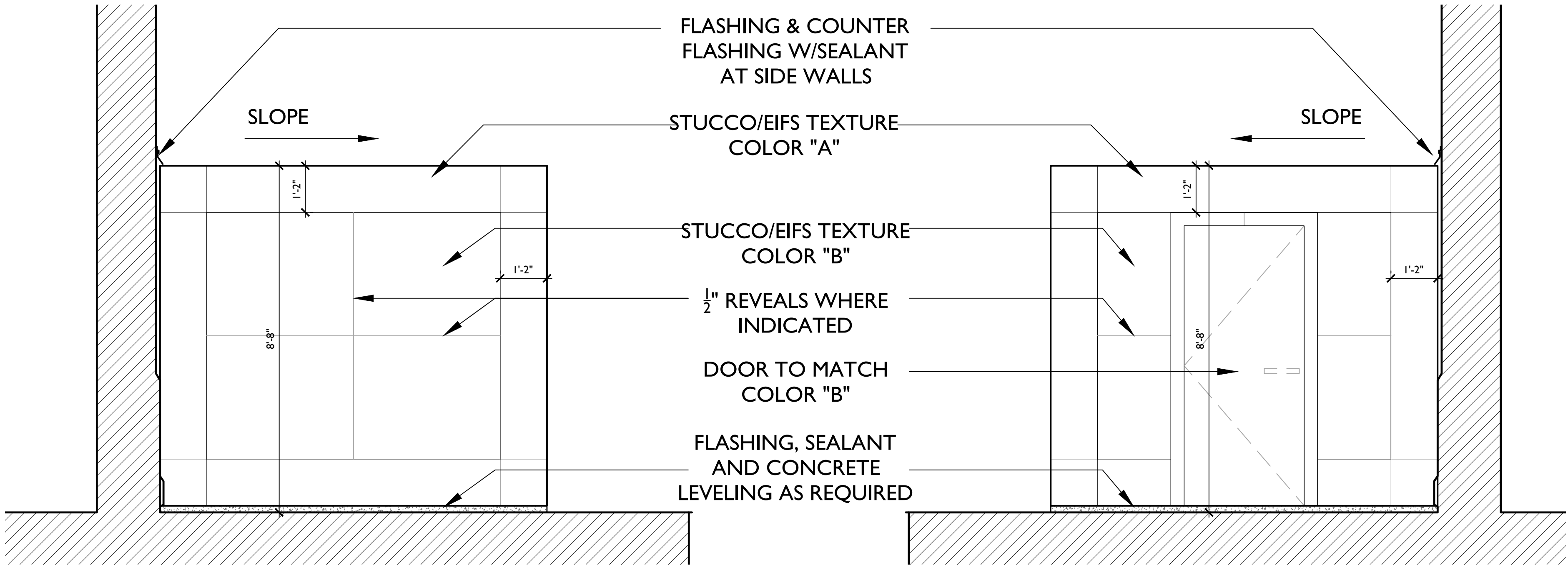
ROOF PLAN KEY NOTES:

- EXISTING RTU/HVAC UNITS TO REMAIN
- NEW MECHANICAL / WALK-IN COOLER CONDENSER / MAKE-UP AIR UNIT / GREASE DUCT EXHAUST - COORD FINAL SPEC AND SIZING WITH MEP. COORD FINAL PLACEMENT WITH ARCHITECT TO ENSURE UNIT IS NOT VISIBLE FROM STREET. NEW UNITS SHALL BE LOCATED WITHIN THE HATCHED RTU / EQ_ZONE.
- NEW WALK-IN COOLER ROOF BELOW. CONDENSERS FOR COOLER SHALL BE PLACED ON UPPER ROOF AND ALL PIPING/LINE-SETS SHALL BE RUN IN A CONCEALED FASHION INSIDE THE BUILDING TO THE ROOF. COOLER ROOF SHALL BE INSTALLED AGAINST EXISTING BUILDING FACADE WITH FLASHING AND COUNTER-FLASHING FOR A WEATHERTIGHT INSTALLATION, PER MANUFACTURER INSTALLATION INSTRUCTIONS. NEW CONDENSER UNITS SHALL BE LOCATED WITHIN THE HATCHED RTU / EQ_ZONE ON UPPER ROOF.



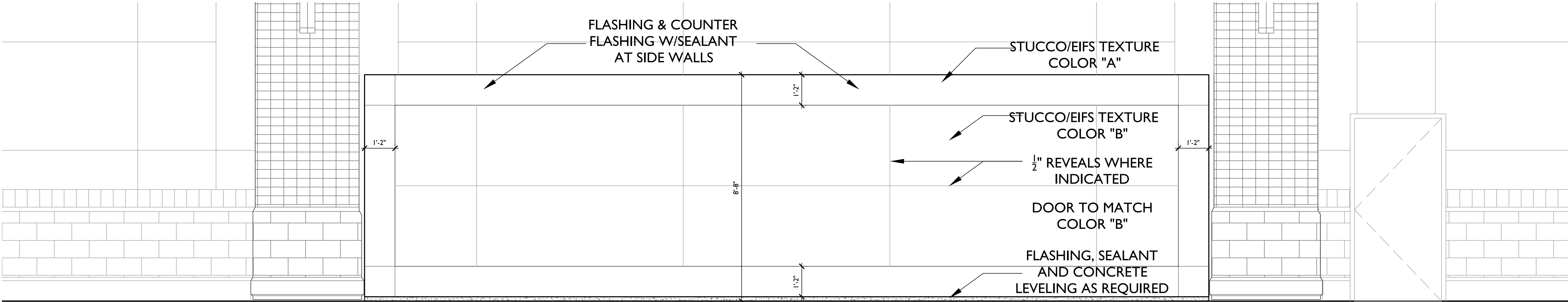


04 | South Overall Elevation
Scale 1/4" = 1'-0"



02 | East Exterior Elevation
Scale 1/2" = 1'-0"

03 | West Exterior Elevation
Scale 1/2" = 1'-0"



01 | South Exterior Elevation
Scale 1/2" = 1'-0"



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EXTERIOR ELEVATIONS



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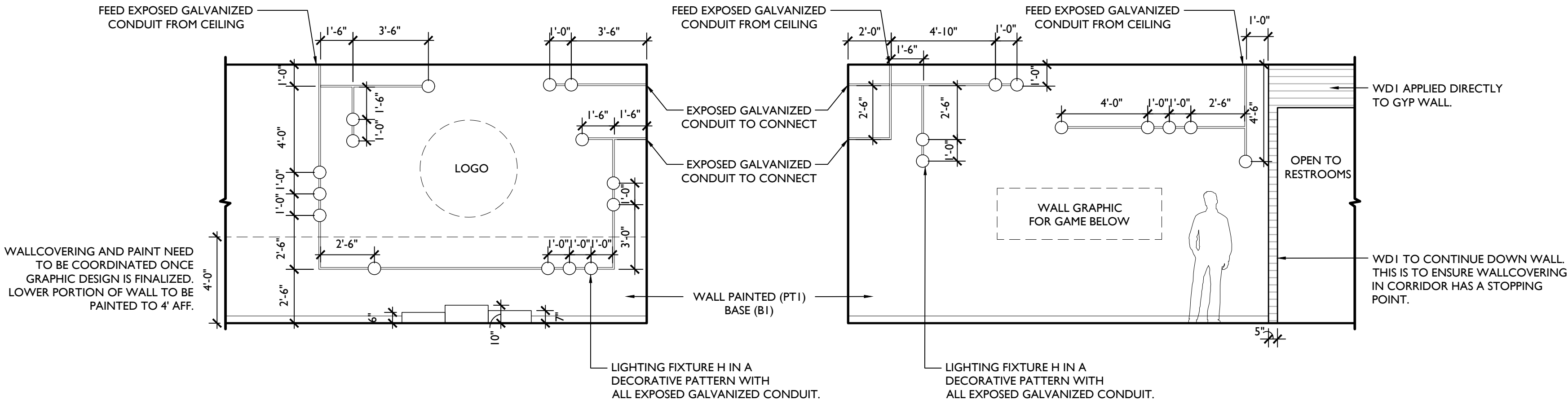
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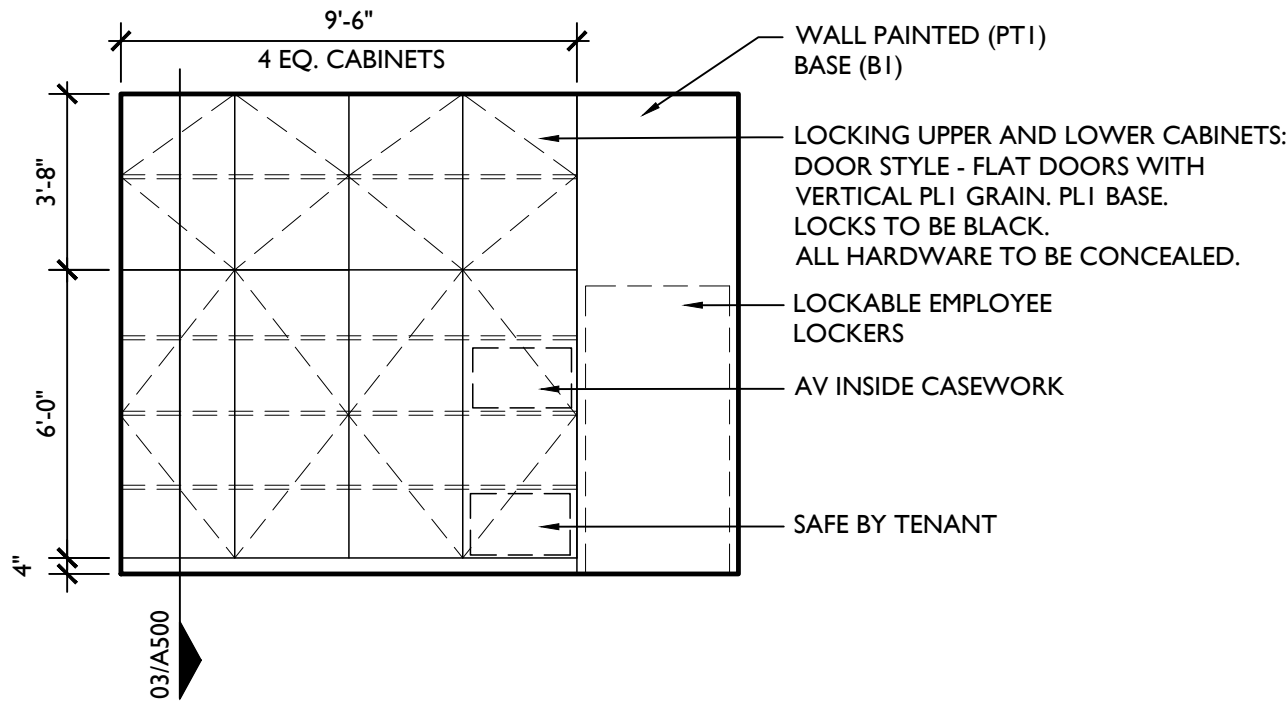
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A400

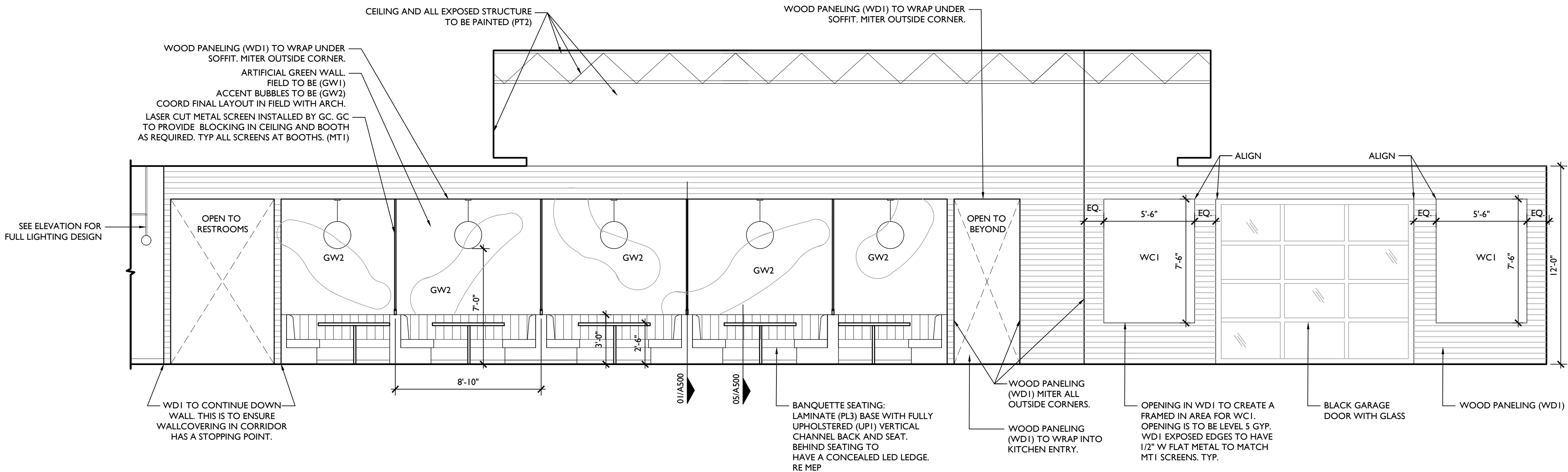
INTERIOR ELEVATIONS



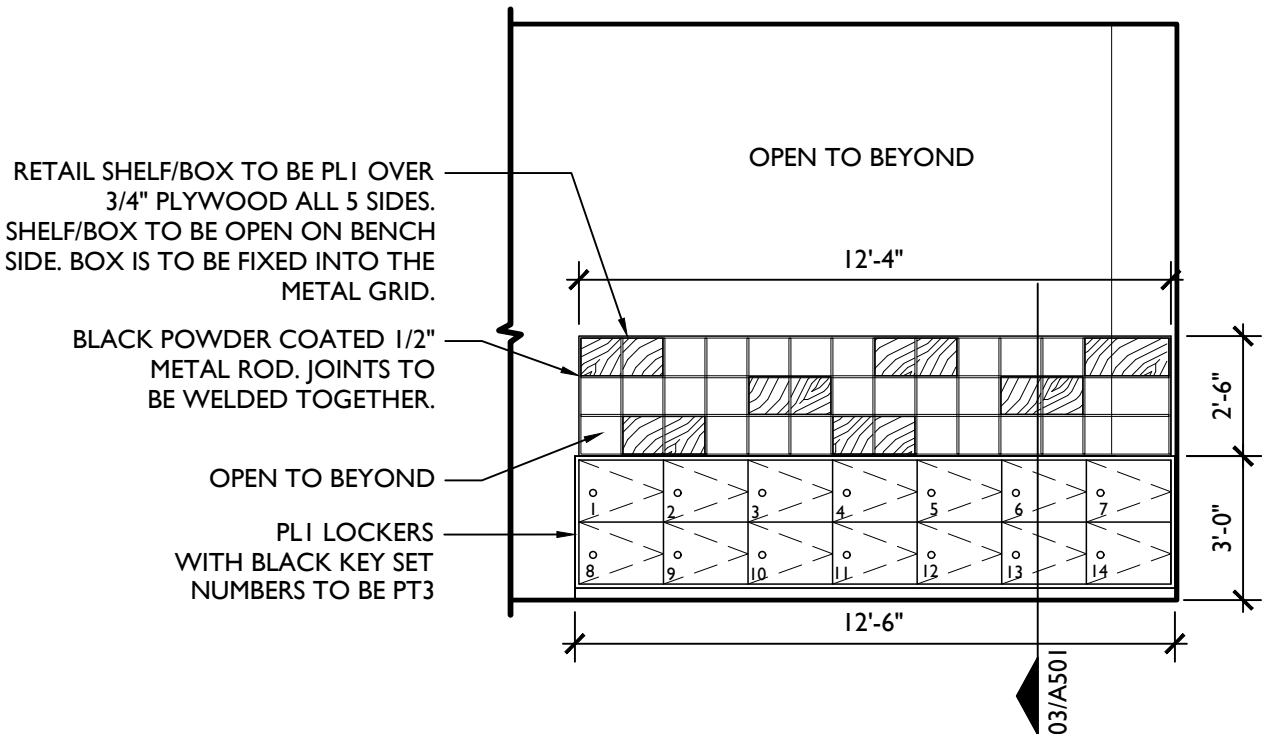
08 Interior Elevation
Scale 1/4" = 1'-0"



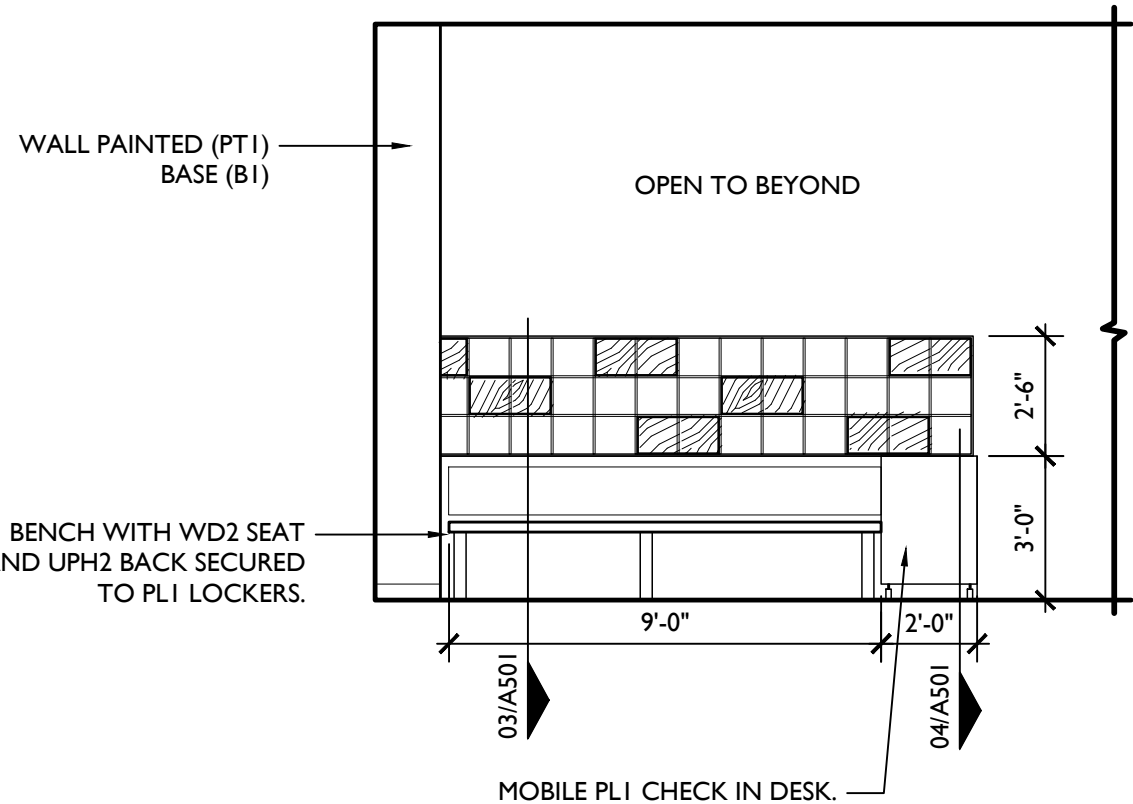
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Scale 1/4" = 1'-0"



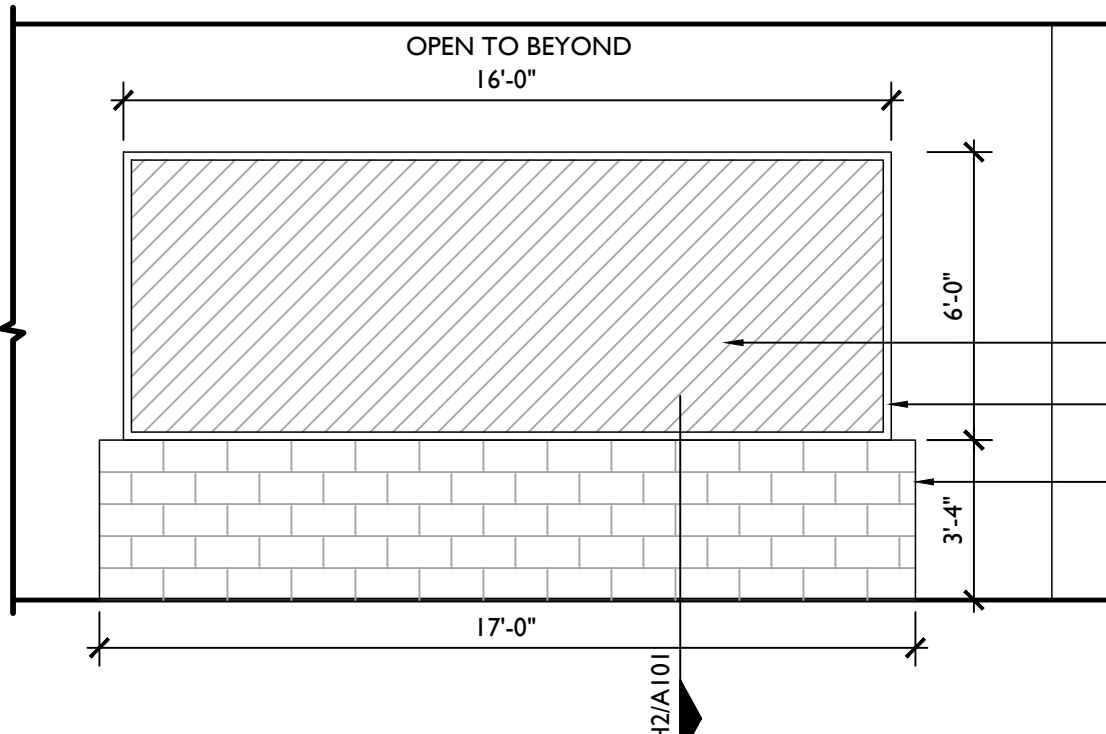
05 Interior Elevation
Scale 1/4" = 1'-0"



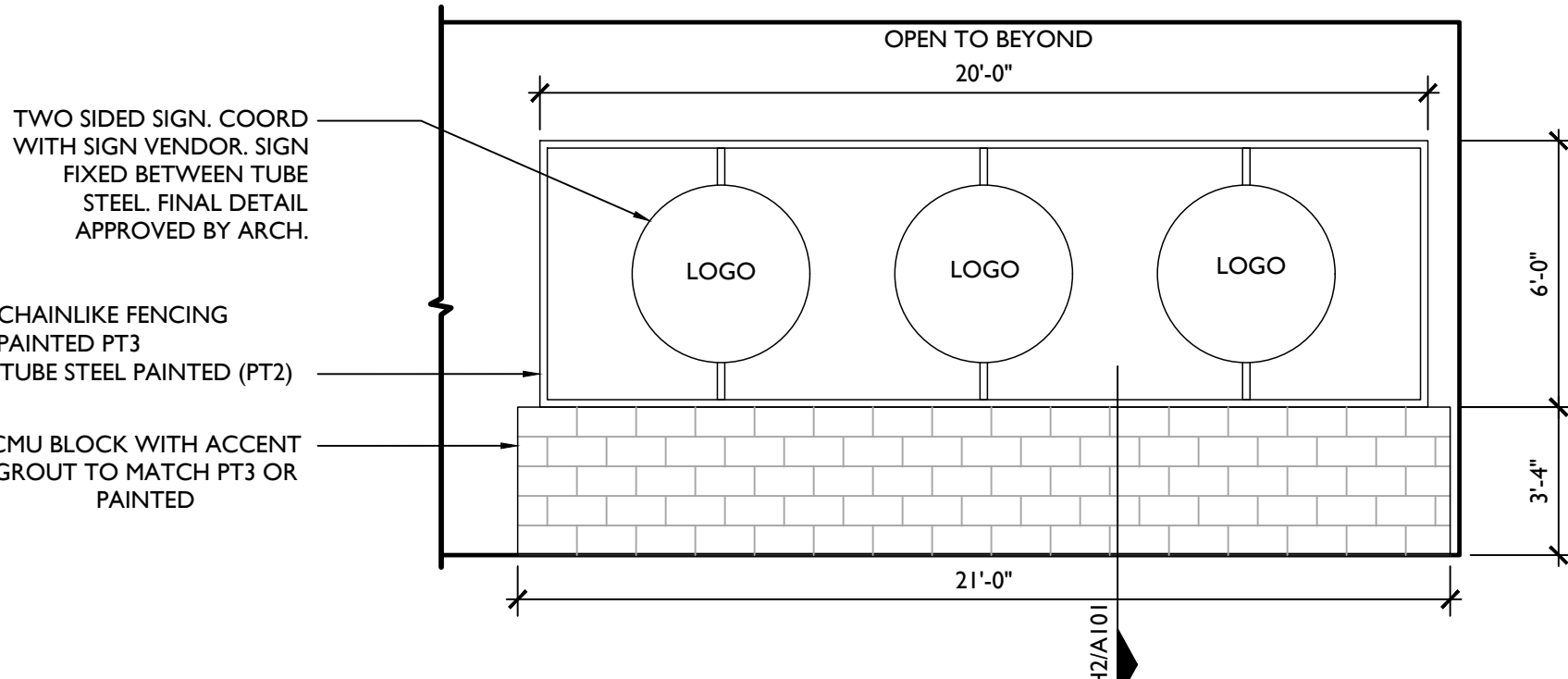
04 Interior Elevation
Scale 1/4" = 1'-0"



03 Interior Elevation
Scale 1/4" = 1'-0"



02 Interior Elevation
Scale 1/4" = 1'-0"



01 Interior Elevation
Scale 1/4" = 1'-0"



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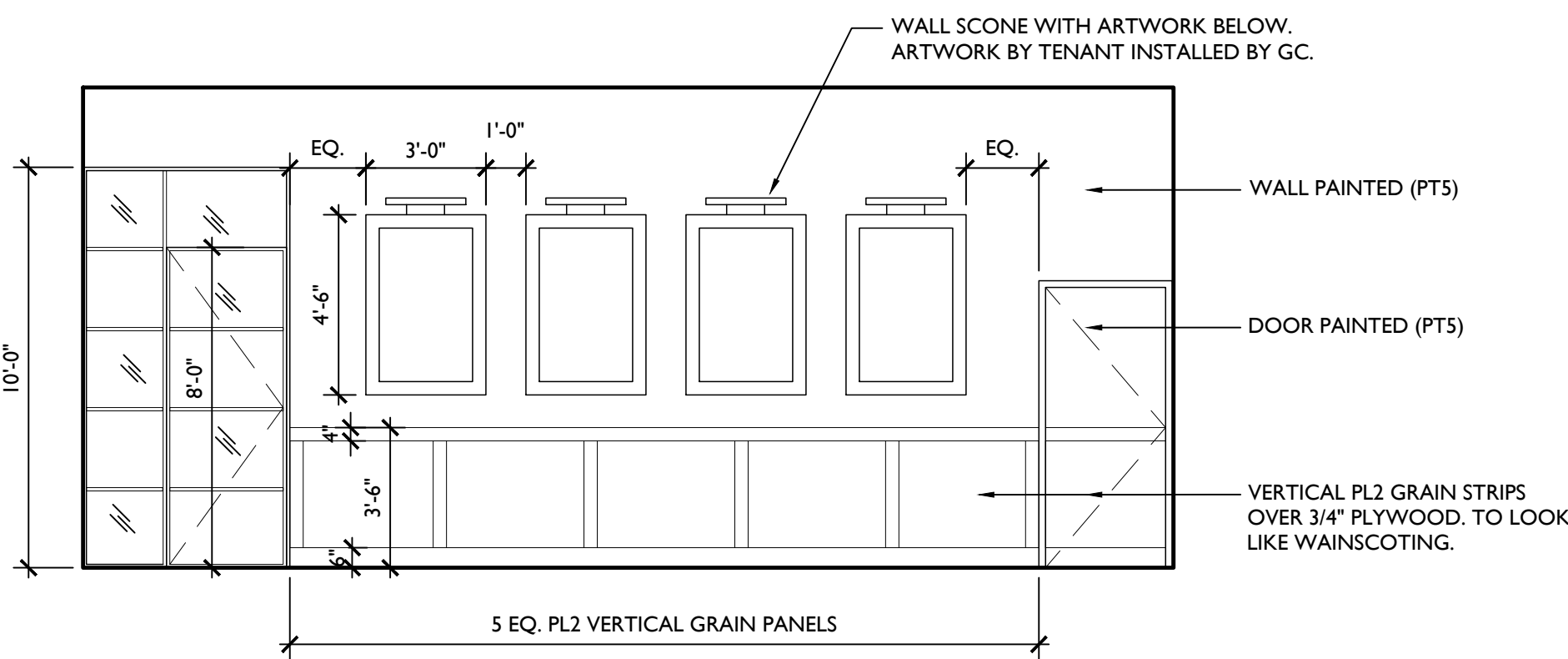
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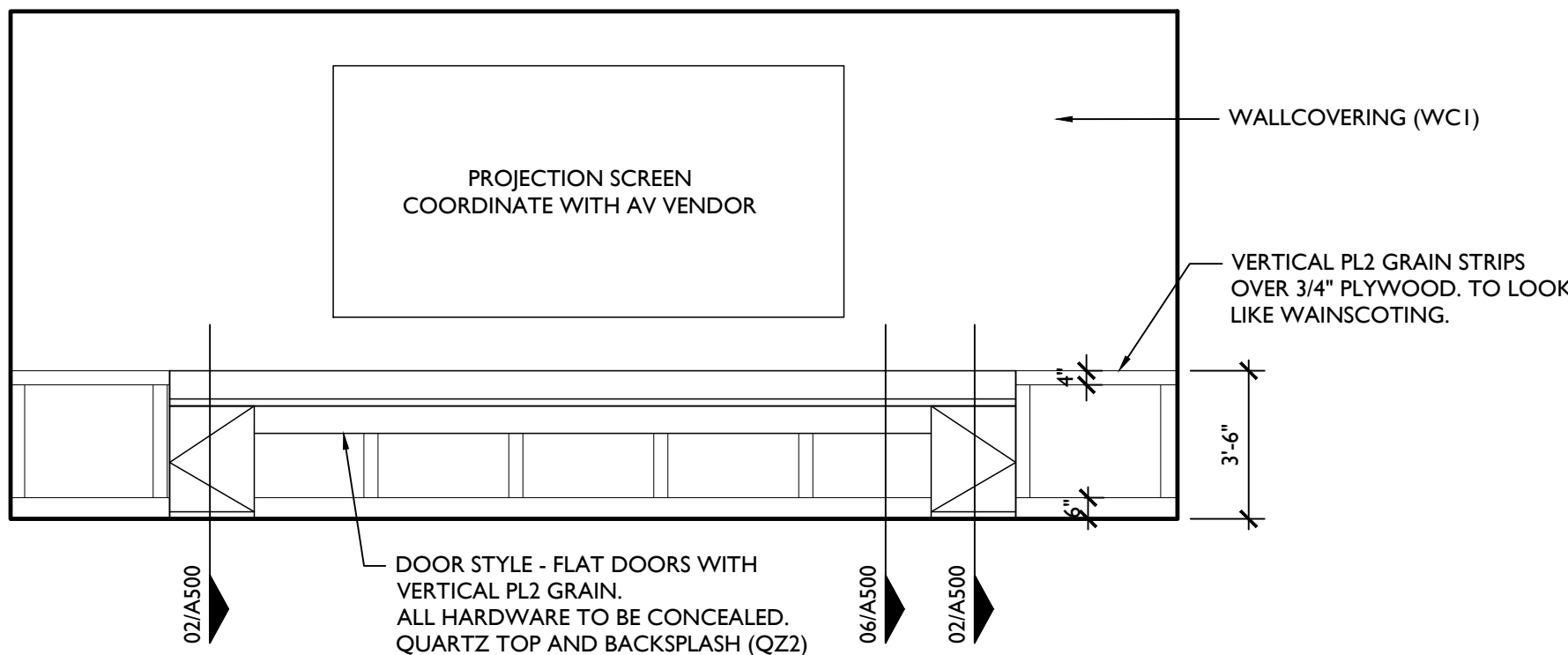
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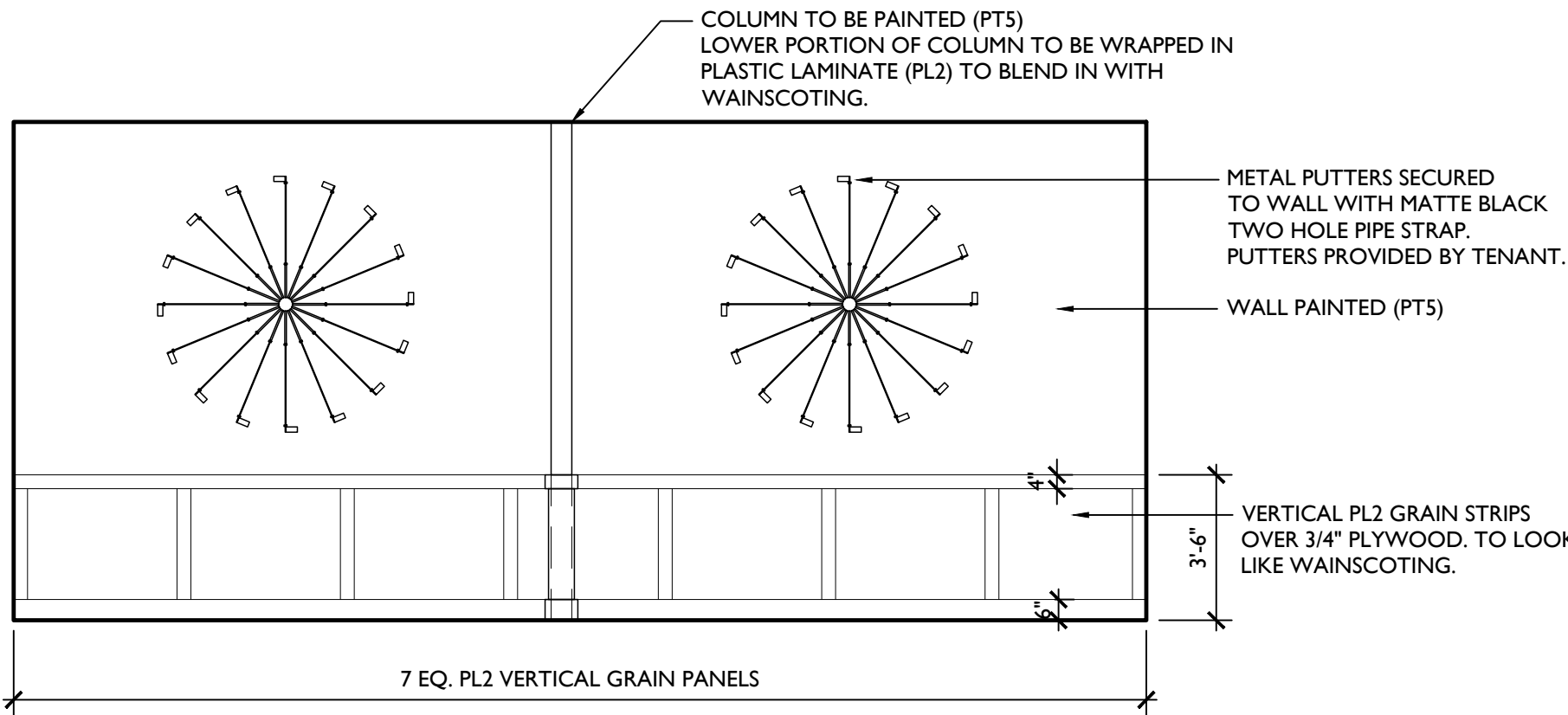
INTERIOR ELEVATIONS



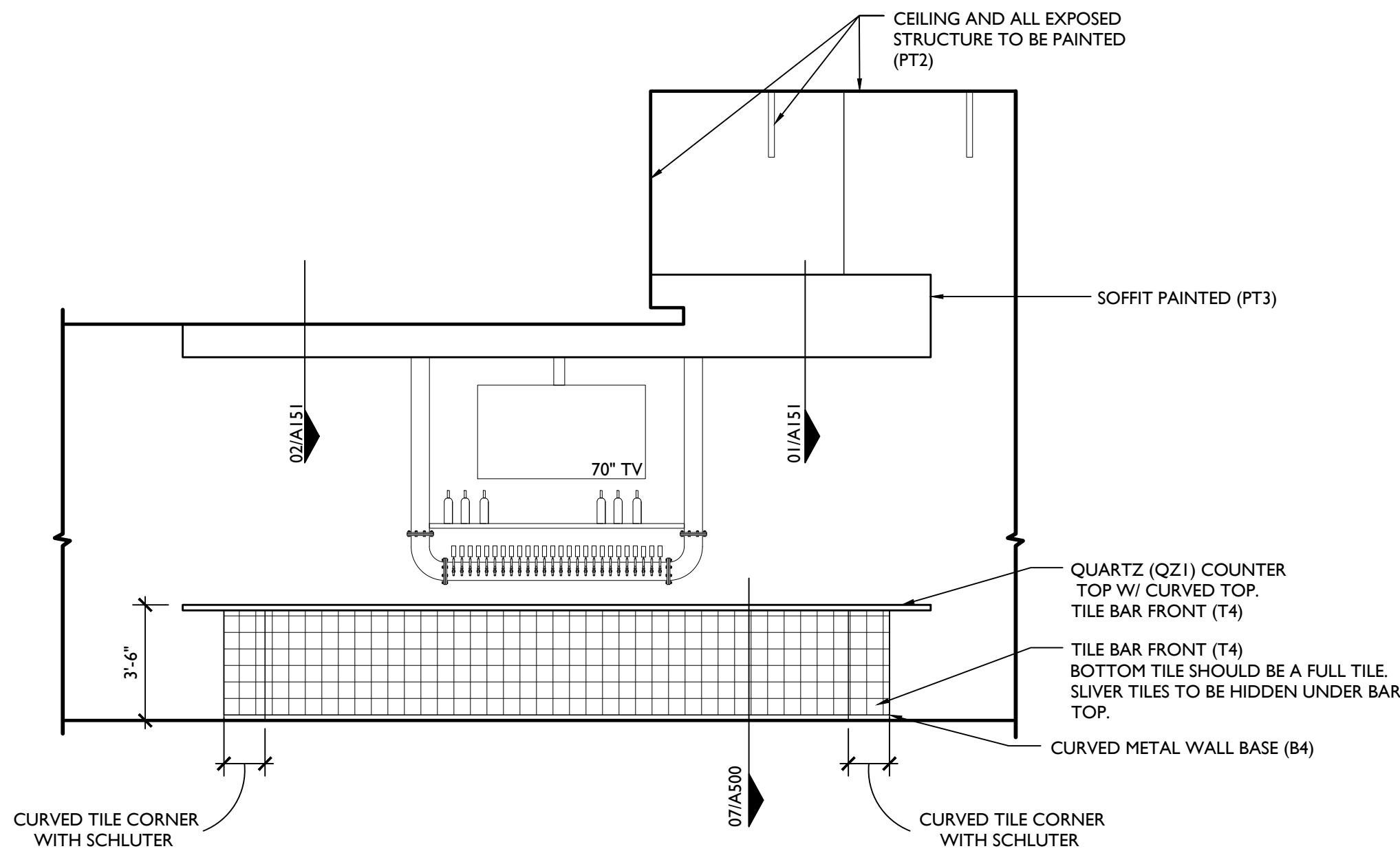
06 Interior Elevation
Scale 1/4" = 1'-0"



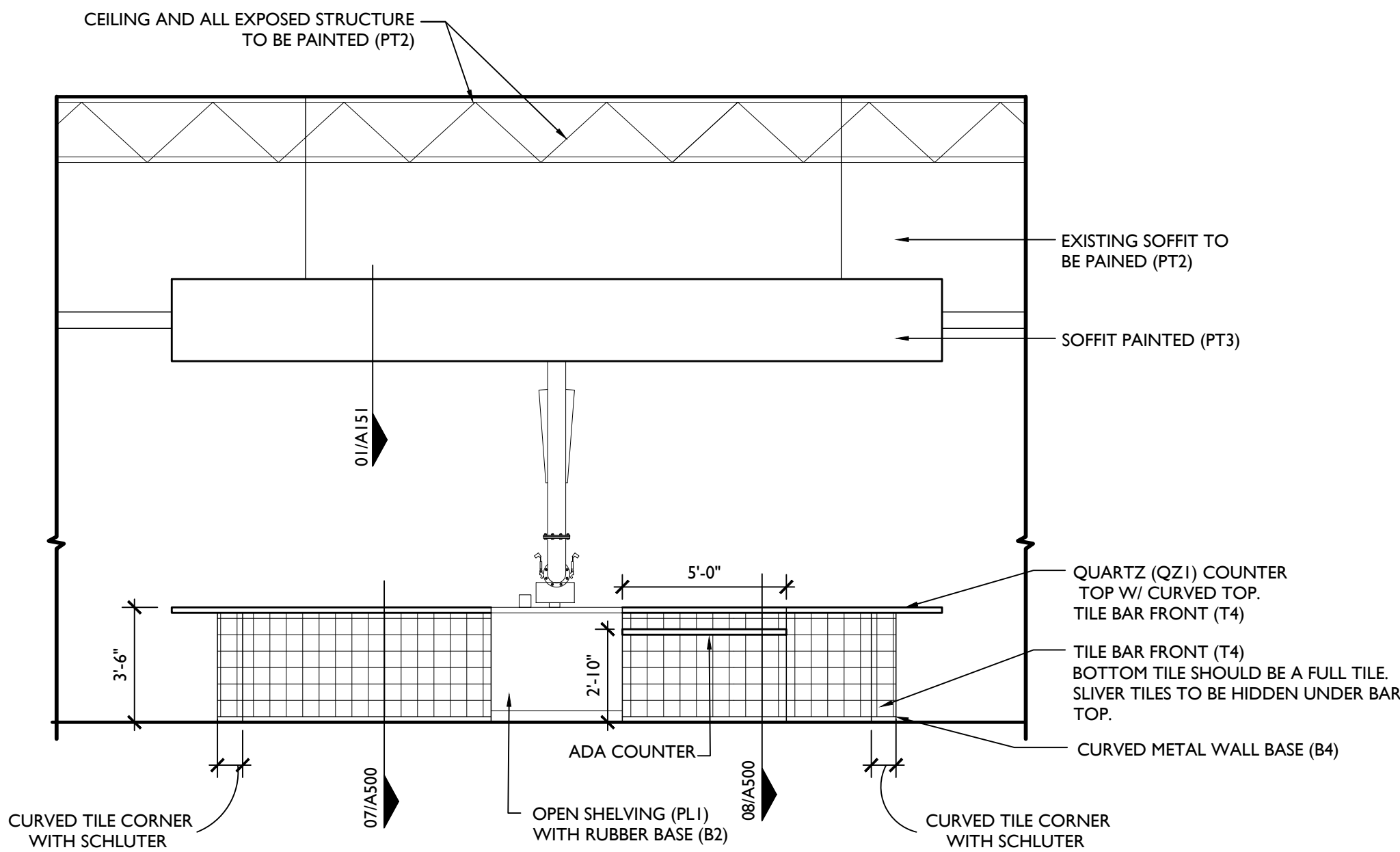
05 Interior Elevation
Scale 1/4" = 1'-0"



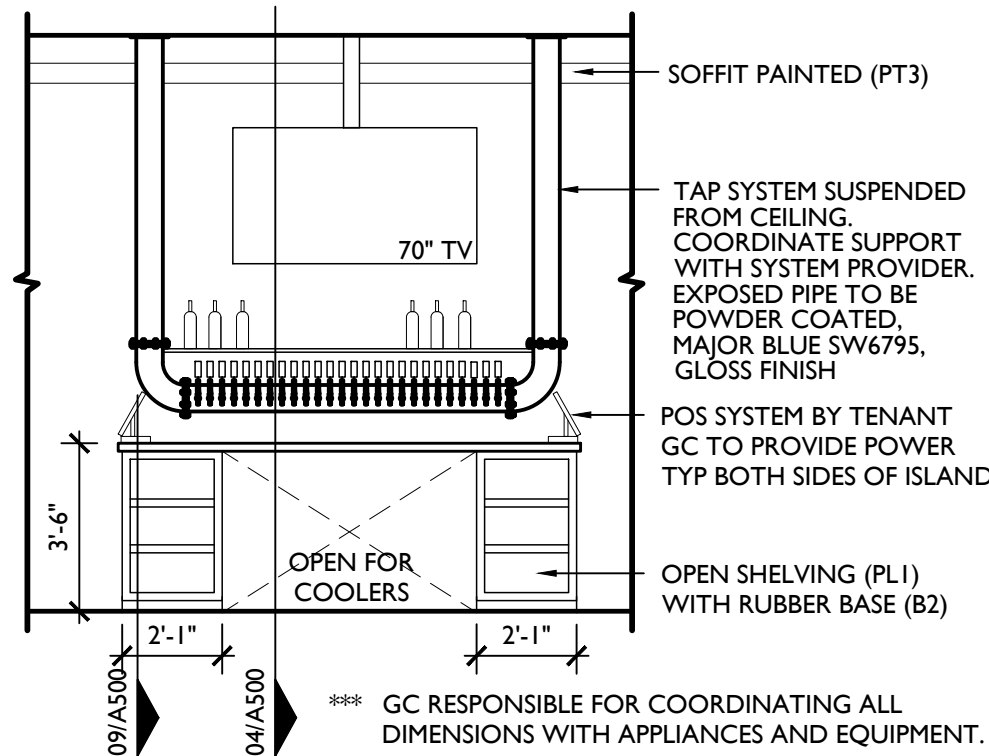
04 Interior Elevation
Scale 1/4" = 1'-0"



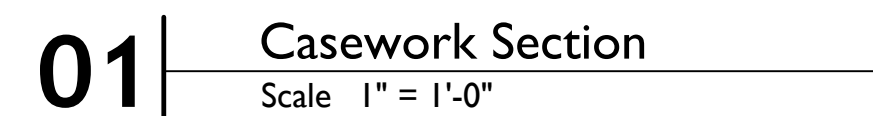
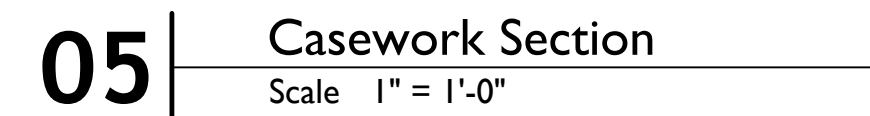
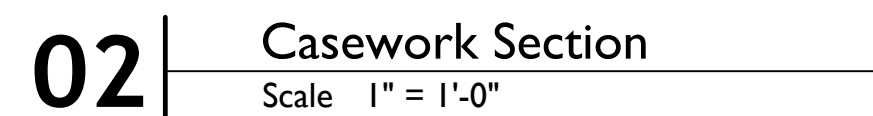
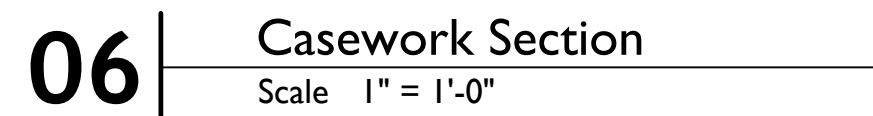
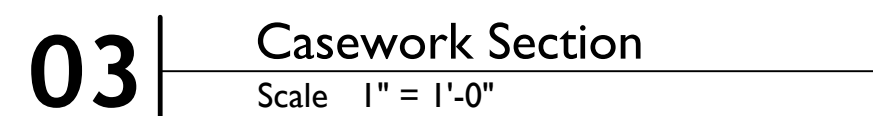
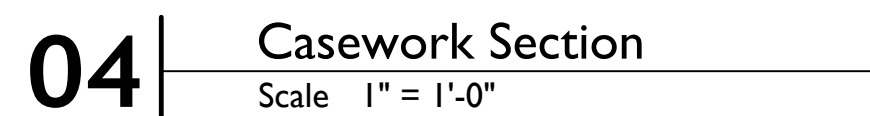
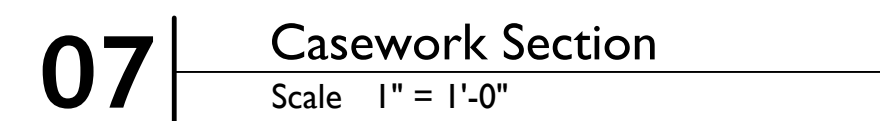
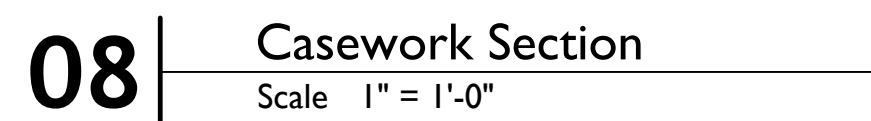
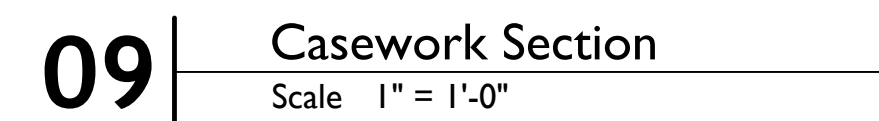
03 Interior Elevation
Scale 1/4" = 1'-0"



02 Interior Elevation
Scale 1/4" = 1'-0"



01 Interior Elevation
Scale 1/4" = 1'-0"



I. AT ALL KITCHEN, BAR AND FOOD-SERVICE AREAS - INTEGRAL COVERED BASE TO BE USED WITH EPOXY TYPE FLOORING. WHERE RUBBER BASE IS INDICATED, CLEAR SILICONE SEALANT MUST BE APPLIED AT ALL JOINTS\



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INTERIOR DETAILS



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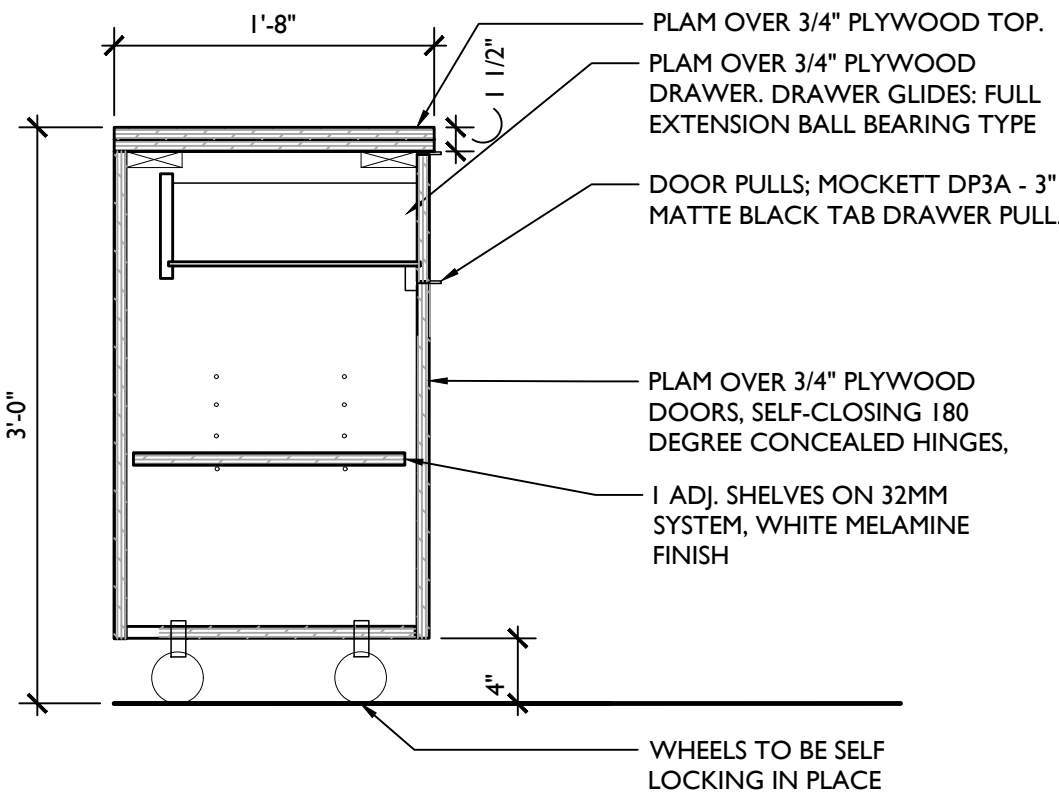
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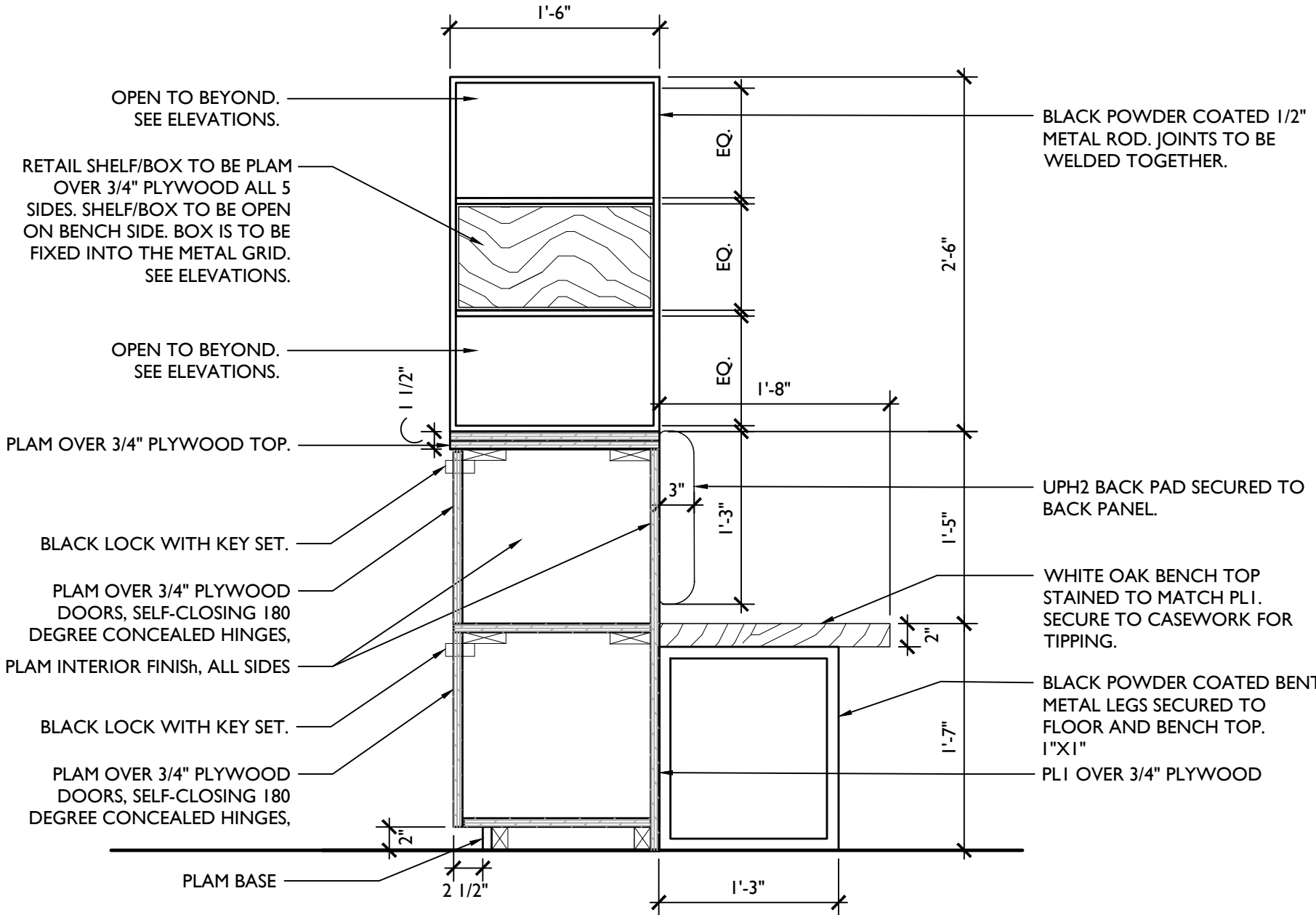
INTERIOR DETAILS

GENERAL NOTES:

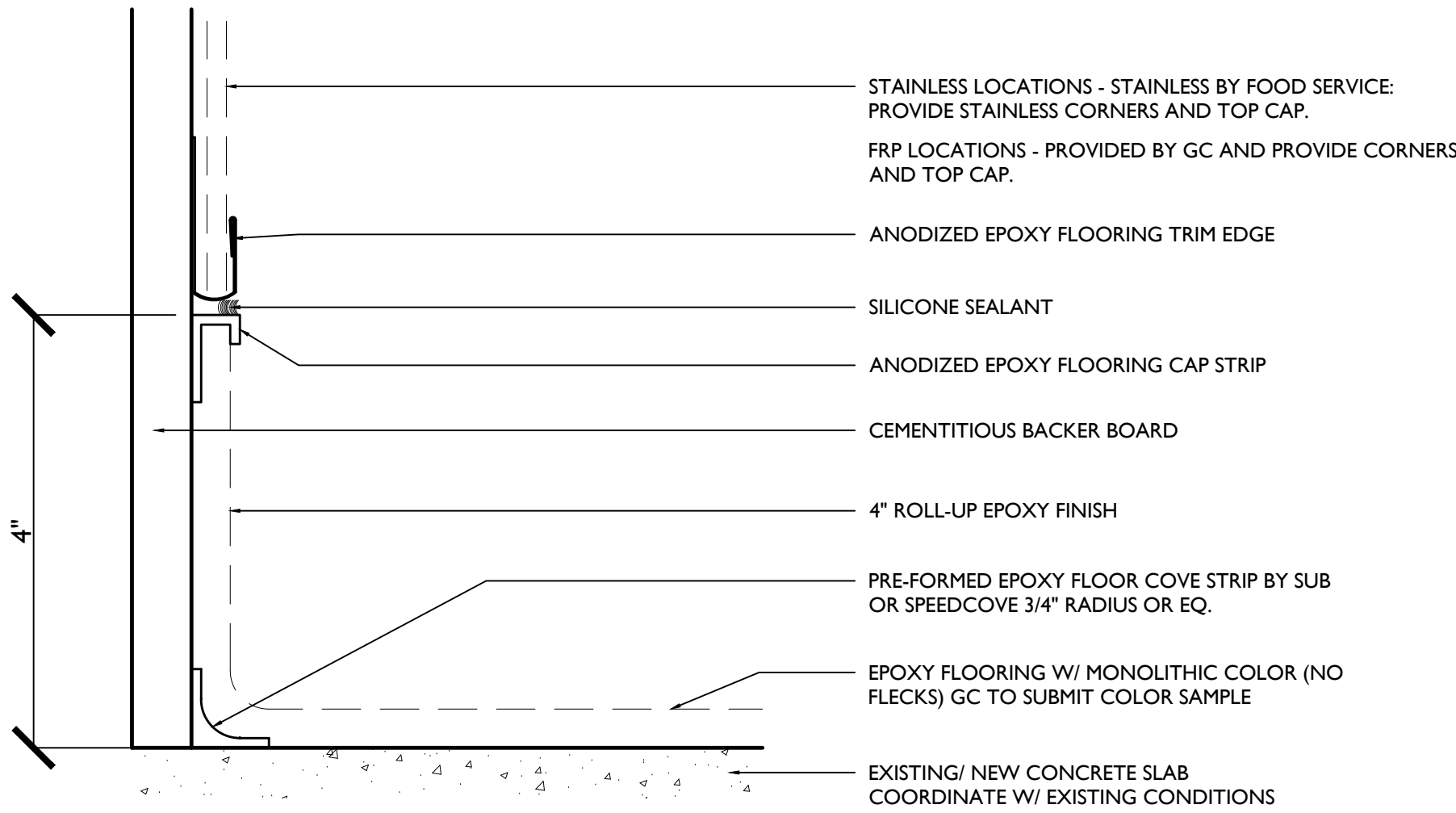
1. AT ALL KITCHEN, BAR AND FOOD-SERVICE AREAS - INTEGRAL COVERED BASE TO BE USED WITH EPOXY TYPE FLOORING. WHERE RUBBER BASE IS INDICATED, CLEAR SILICONE SEALANT MUST BE APPLIED AT ALL JOINTS.



03 | Casework Section
Scale 1" = 1'-0"



02 | Casework Section
Scale 1" = 1'-0"



EPOXY ROLL-UP FLOOR BASE DETAIL- EPOXY TO FRP OR STAINLESS STEEL PANEL TRANSITION
GENERAL NOTE:
-ALL JOINTS/ GAPS SHALL BE SEALED W/ SILICONE SEALANT

01 | Interior Detail



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FINISH PLAN

FINISH FLOOR PLAN GENERAL NOTES:

REFER TO FINISH LEGEND FOR ALL FLOOR, WALL AND CEILING FINISH SPECIFICATIONS

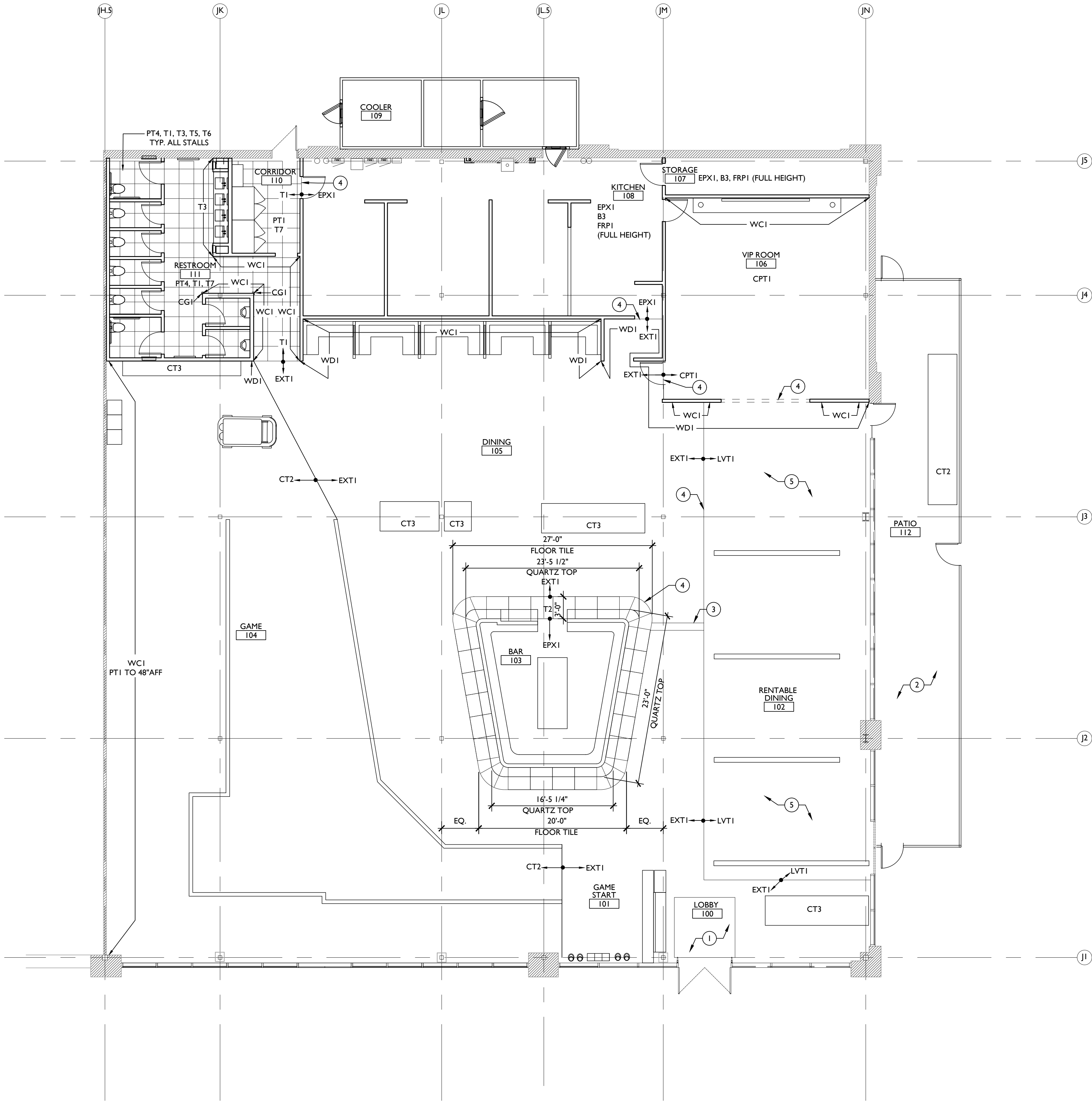
- ALL GYP BD WALLS SHALL BE PAINTED (PT1), U.N.O. ON PLAN.
- ALL EXPOSED CEILING SHALL BE PAINTED (PT2), U.N.O. ON RCP.
- ALL RECEPTACLES & COVER PLATES AT PAINTED PT1 WALLS TO BE BLACK. COVER PLATES AT WALLCOVERING WALLS, WOOD WALLS, OR ACCENT PAINTED WALLS STAINLESS STEEL.
- ALL WALL BASE TO BE B1, U.N.O. ON PLAN.
- ALL WALLS WITH WALLCOVERING TO BE LEVEL 5 FINISH.
- CONTRACTOR TO PROVIDE 4'X4' PAINT SWATCH OF EACH COLOR SCHEDULED FOR APPROVAL BY OWNER.
- PAINT HM FRAMES TO MATCH ADJACENT WALLS (SEMI-GLOSS), U.N.O.
- ALL PAINT FINISH TO BE EGGSHELL, U.N.O. SEMI-GLOSS PAINT AT WOOD APPLICATIONS, FLAT PAINT ON CEILINGS.
- ALL GYP WALLS TO BE PAINTED IN WET LOCATIONS SHALL USE EPOXY TYPE PAINT.
- CLEAN ALL FLOORING THAT IS TO REMAIN.
- CONTRACTOR TO PROVIDE ALL FINISH SAMPLES FOR FINAL APPROVAL.

FINISH FLOOR PLAN KEY NOTES:

- RECESSED EXISTING WALK OFF TO REMAIN.
- PATCH EXTERIOR CONCRETE AS REQUIRED.
- PATCH TILE WITH SALVAGED EXTI.
- PROVIDE SCHLUTER SCHIENE STAINLESS STEEL AT ALL FLOOR TRANSITIONS. U.N.O. SCHLUTER SCHIENE-RADIUS EDGE AT BAR AREA STAINLESS STEEL.
- GC TO ENSURE LVT IS AT THE SAME HEIGHT AS TILE FLOORING.

FINISH LEGEND

- ACT- ACOUSTICAL GRID CEILING
ACT1- CERTAINTED PERFORMA VINYLROCK 1142-CRF-1, 2'X4' CEILING TILE (WHITE), GRID - WHITE 15/16" OR APPROVED EQ.
ACT2- ARMSTRONG TECTUM DIRECT ATTACH CEILING PANEL PAINTED TO MATCH CEILING (PT2) 23-3/4" X 48". PANELS TO BE IN OPEN TO STRUCTURE AREAS ONLY.
ACT3- DUNE, 2'X2' CEILING TILE, TEGULAR (PAINTED PT2). GRID: BLACK 15/16" OR APPROVED EQ.
ACT4- FACT DESIGN, BRUT CEILING, 23.75" X 23.75", COLOR F-04, INSTALL INTO BLACK TGRID. FACTORY CUT HOLES FOR CAN LIGHTS.
REP CONTACT: KENNY BEALL kenny@beall-co.com
- B- BASE
B1- 4" PAINT GRADE WOOD BASE PAINTED TO MATCH ADJACENT WALL PAINT
B2- 4" BLACK RUBBER BASE
B3- INTEGRAL ROLL-UP 4" H EPOXY BASE
B4- 2" METAL BASE - KOFILER SALES COMPANY, SMOOTH METAL WALL BASE MOLDING - #A531, 2" H, COLOR ALUMINUM, BLACK MATTE OR APPROVED EQUAL.
- CT- CARPET TILE
CT1- PATCRAFT; REVERSE, 10615 RENEWAL, 00510 RESTORE
INSTALL: STAGGER
CT2- GREEN TURF. COORDINATE WITH TENANT.
CT3- BLUE TURF. COORDINATE WITH TENANT.
- CG- CORNER GUARD
CG1- 8FT X 0.75IN X 0.75IN, .042IN THICK, PAINTABLE TEXTURED VINYL CORNER GUARD, WITH SELF-STICK TAPE, PAINTED TO MATCH ADJACENT WALL.
- EPX- EPOXY FLOORING
EPX1- DUR-A-FLEX EPOXY; POLYCRETE SLB W/ 'COLOR FAST' TOP COAT
COLOR: GREY NOTE: GC SHALL PROVIDE MOISTURE TESTING AS MANUF. RECOMMENDED PRIOR TO INSTALL. PROVIDE ARCHITECT W/ VERIFICATION OF TESTING RESULTS.
- EXT1- EXISTING TILE FLOORING
- FRP- FIBERGLASS REINFORCED PLASTIC PANELING
FRP1- MARLITE, PEBBLE TEXTURE, COLOR P100 WHITE (BOH)
FRP2- MARLITE, PEBBLE TEXTURE, COLOR P807 BLACK (BAR)
- GW- GREEN WALL
GW1- DESIGNER PLANTS, NATURAL ARTIFICIAL BOXWOOD WALL 40X40 COMMERCIAL GRADE UV RESISTANT.
GW2 - DESIGNER PLANTS, PREMIUM BRIGHT ARTIFICIAL BOXWOOD WALL 40X40 COMMERCIAL GRADE UV RESISTANT
- LVT- LUXURY VINYL TILE
LVT1 - TBD - \$3.50 ALLOWANCE. NOT INCLUDING MARKUP, FREIGHT OR INSTALL. FLOOR PAD MAY BE REQUIRED TO ENSURE LVT IS THE SAME HEIGHT AS ADJACENT EXISTING TILE.
- MT - METAL
MT1 - HOT ROLLED STEEL SHEET WITH MATTE SEALER ARCHITECT TO APPROVE FINAL SAMPLE. LASER CUT DESIGN BY GRAPHIC DESIGNER.
- PT- PAINT
PT1- SHERWIN WILLIAMS; IRON ORE, SW7069 (FIELD WALLS TO BE EGGSHELL)
PT2- SHERWIN WILLIAMS; IRON ORE, SW7069 (FIELD CEILING TO BE FLAT)
PT3- SHERWIN WILLIAMS; MAJOR BLUE, SW6795 (WALLS TO BE EGGSHELL)
PT4- SHERWIN WILLIAMS; BLUE PLATE, SW6796 (WALLS TO BE EGGSHELL)
PT5- SHERWIN WILLIAMS; HUNT CLUB, SW6468 (WALLS TO BE EGGSHELL)
PT6- SHERWIN WILLIAMS; HUNT CLUB, SW6468 (CEILING TO BE FLAT)
PT7- SHERWIN WILLIAMS; CEILING BRIGHT WHITE, SW7007 (CEILING TO BE FLAT)
PT8- SHERWIN WILLIAMS; BLUE PLATE, SW6796 (CEILING TO BE FLAT)
- PL- PLASTIC LAMINATE
PL1- ARBORITE, W449 EV, RIFT NATURAL OAK
PL2- FORMICA; FORMAL WALNUT, NATURAL GRAIN TEXTURE
PL3- FORMICA FENIX; J0724 COLOR BODY
- QZ- QUARTZ
QZ1- WILSONART; URBAN CLOUD, POLISHED (3CM BAR TOP)
QZ2- WILSONART; BODEGA Q1022, POLISHED (3CM/2CM PER LOCATION)
- T- TILE
T1- VIRGINIA TILE; CAESAR, LINK, CHAIN, 24X24.
INSTALL: STACKED GROUT; LATICRETE, 78 STERLING SILVER
T2- CONCEPT SURFACES; MILLENNIUM, MINERAL BLUE, 36X36
INSTALL: STACKED TO FOLLOW BAR SHAPE GROUT; TBD
T3- DALTILE; COLOR WHEEL, 6X6, ARCTIC WHITE 0190 (1) SEMI-GLOSS.
INSTALL: STACKED GROUT; MAPEI COLOR MATCH GROUT, BLUE PLATE, SW6796.
T4- DALTILE; COLOR WHEEL, 4X4, GALAXY 1469 (3) SEMI-GLOSS.
INSTALL: STACKED GROUT; TBD
T5- DALTILE; COLOR WHEEL, 6X6, BULLNOSE S4669, ARCTIC WHITE 0190 (1) SEMI-GLOSS.
INSTALL: STACKED GROUT; MAPEI COLOR MATCH GROUT, BLUE PLATE, SW6796.
T6- DALTILE; COLOR WHEEL, 6X6, COVE BASE A3601, ARCTIC WHITE 0190 (1) SEMI-GLOSS.
INSTALL: STACKED GROUT; MAPEI COLOR MATCH GROUT, BLUE PLATE, SW6796.
*COORDINATE COVE BASE CORNERS. COVE CORNER RIGHT SCR3601 6X6, COVE CORNER LEFT SCL3601 6X6, ARCTIC WHITE 0190 (1) SEMI-GLOSS.
T7- VIRGINIA TILE; CAESAR, LINK, CHAIN, 6x12 COVEBASE
INSTALL: ALIGN WITH FLOOR TILE, GROUT; LATICRETE, 78 STERLING SILVER
*TOP SCHLUTER REQUIRED.
- UPH- UPHOLSTERY
UPH1- STINSON, MOCCASIN 2.0 MOC 236 SADDIE
UPH2- STINSON, ALAMO ALM 25 NEPTUNE
- WC- WALLCOVERING
WC1- WALLCOVERING PROVIDED BY GRAPHIC DESIGNER. INSTALLED BY GC.
GC TO PROVIDE LEVEL 5 FINISH.
- WD- WOOD
WD1- ANTHOLOGY WOODS; THINCLAD PANELING, LEGACY WHITE OAK CHARACTER 5"W, THICKNESS 3/8" - MICRO-BEVEL, LOW VOC-POLY PROTECTIVE TOPCOAT, OR APPROVED EQUAL.
WD2- FLAT CUT WHITE OAK, STAINED TO MATCH PL1



01

Finish Plan

Scale 1/8" = 1'-0"





Craft Putt - Lee's Summit

Summit Fair
840-M NW BLUE PKWY, SUITE M
LEE'S SUMMIT, MO 64086

rev	issue	date
	PERMIT SET	07.29.2024

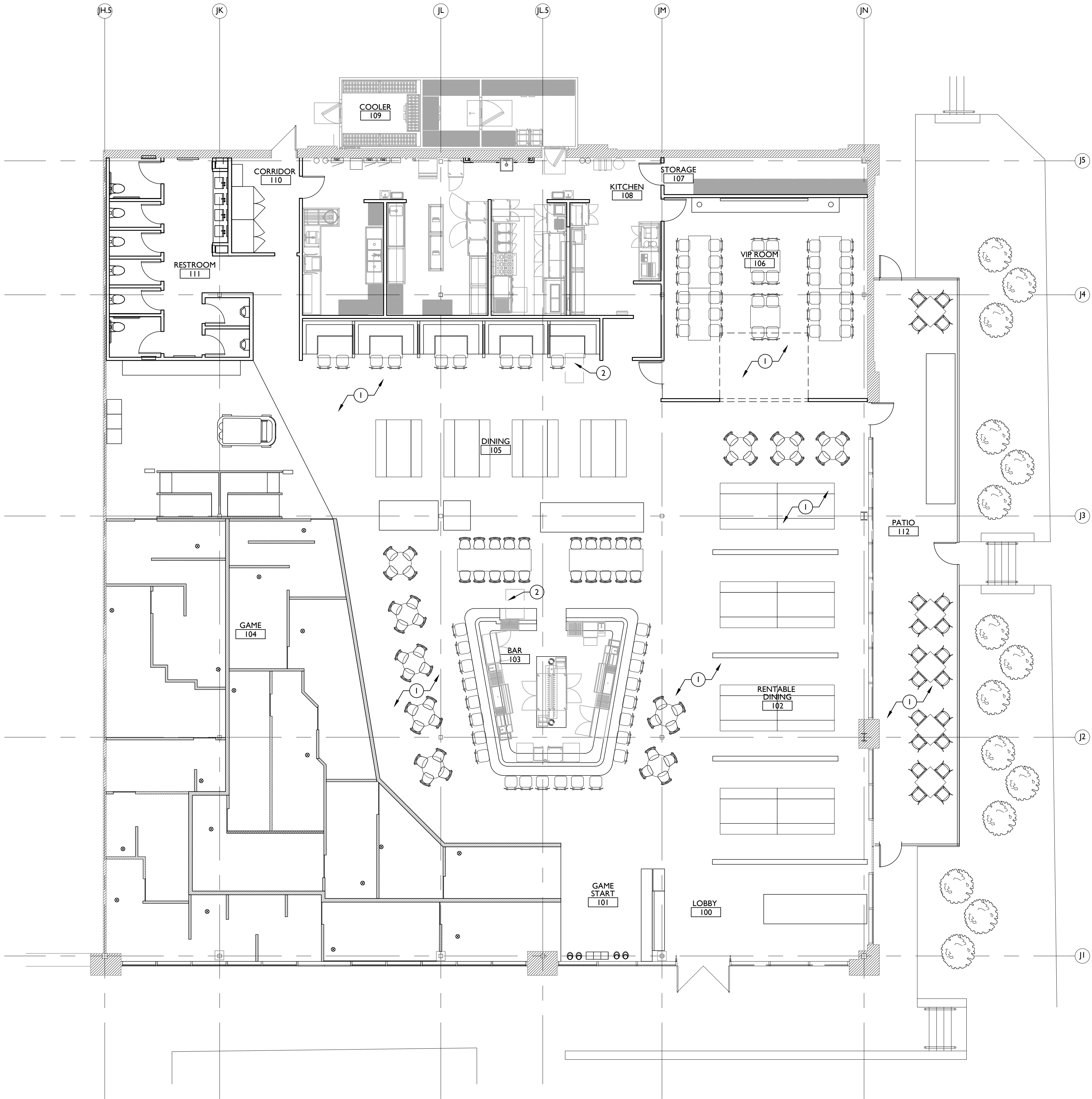
24.02 Craft Putt Lee's Summit

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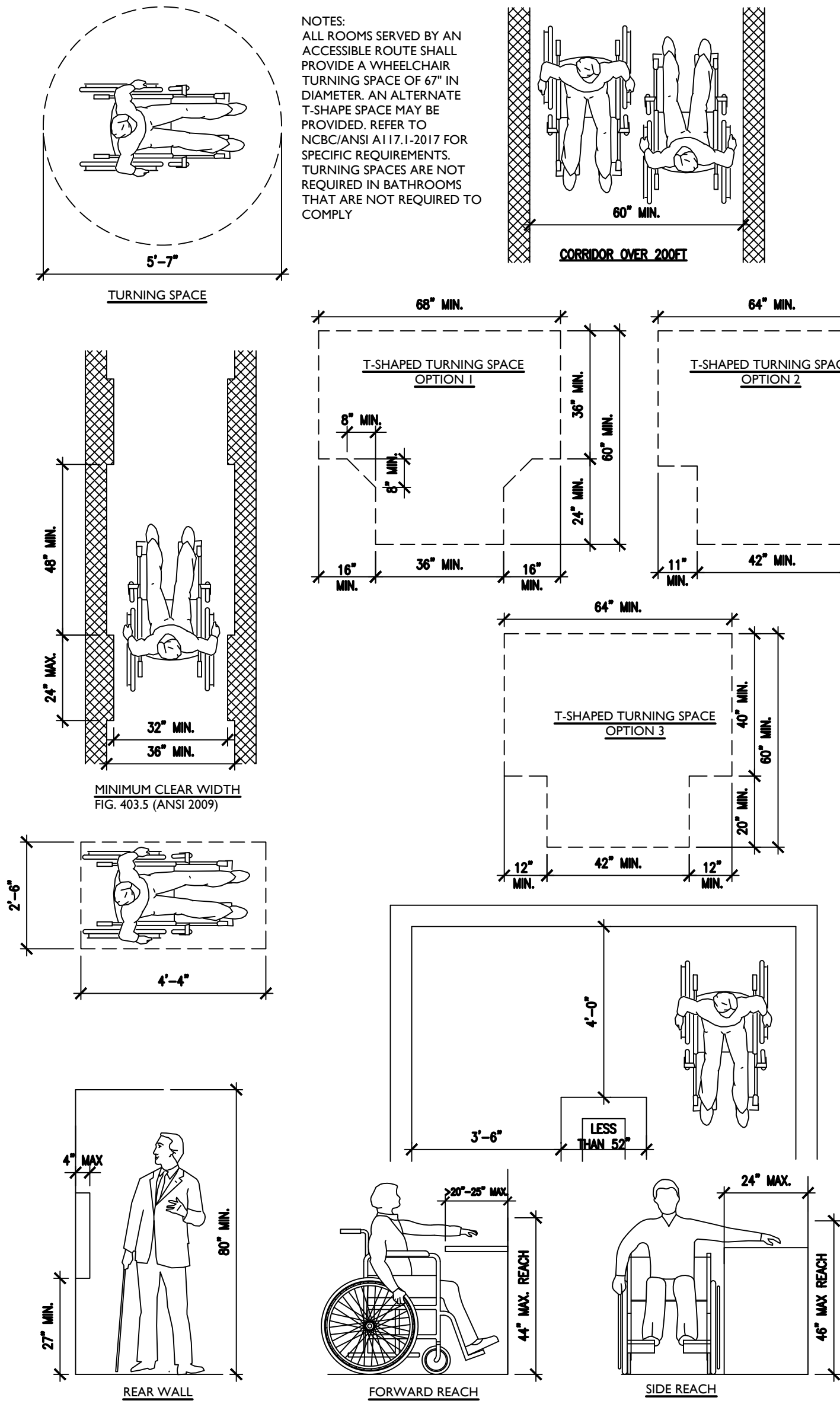
FURNITURE PLAN

FURNITURE PLAN GENERAL NOTES:
1. ALL FREE STANDING FURNITURE BY TENANT. (BARSTOOLS, CHAIRS, TABLES, ETC.)

FLOOR PLAN KEY NOTES:
① FURNITURE SHOWN AS REFERENCE.
② 30X48 CLEAR FLOOR SPACE FOR ADA APPROACH TO BAR/TABLE.

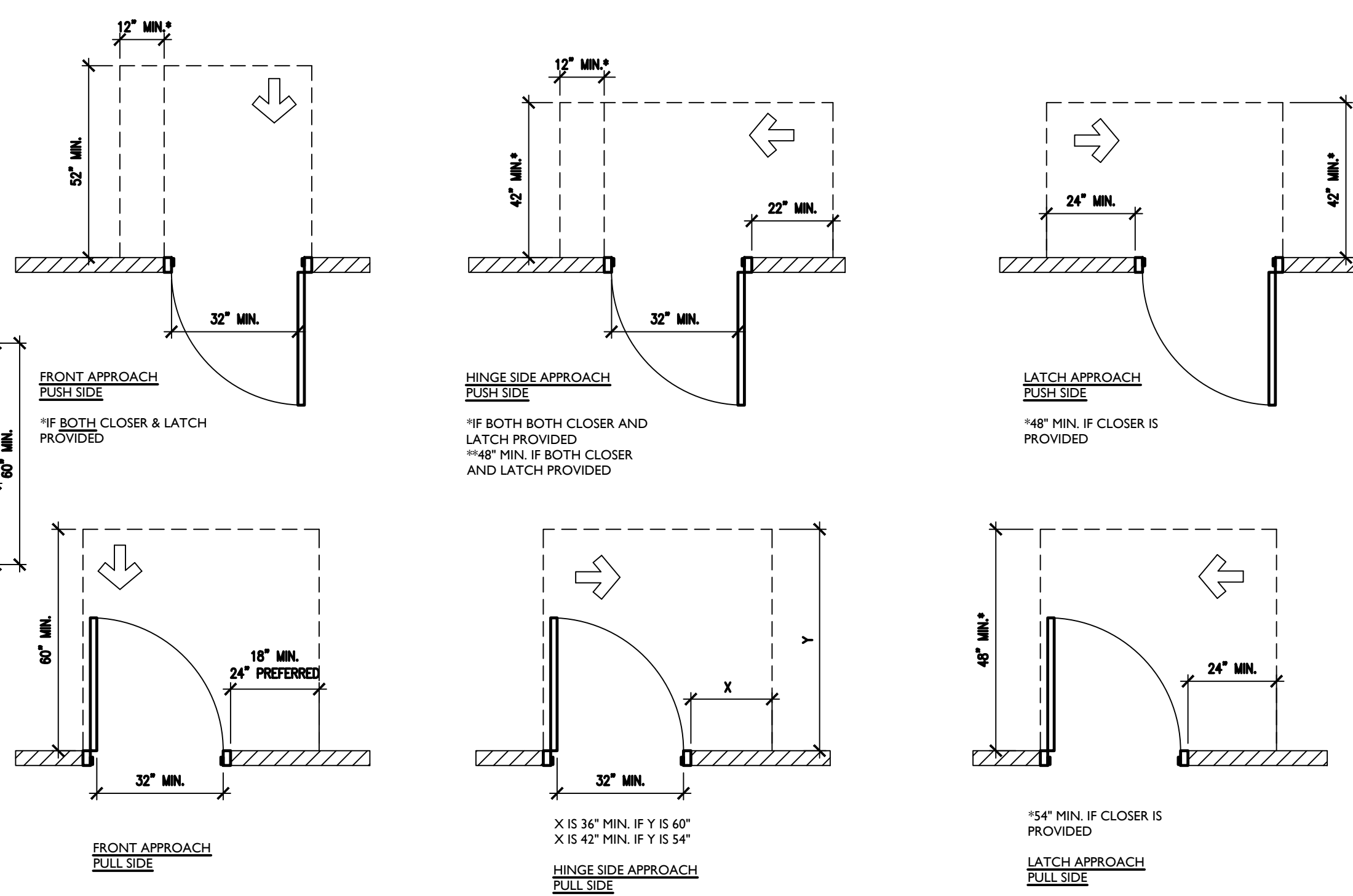


Accessibility Diagrams for Common Areas Per 2018 IBC & ICC/ ANSI A117.1 -2017



Clearances and Reach for ADA

SCALE: NTS

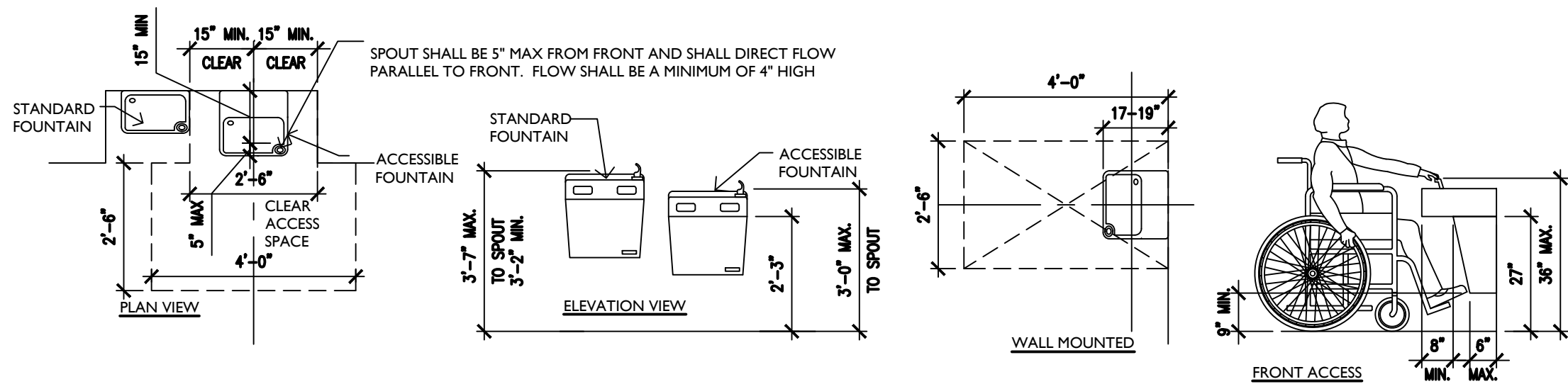


NOTE:

1. TWO DOORS IN A SERIES SHALL BE 48" MIN. PLUS THE WIDTH OF ANY DOOR SWINGING INTO THE SPACE.
2. IN BATHROOMS NOT REQUIRED TO COMPLY, MANEUVERING CLEARANCES ARE NOT REQUIRED ON THE BATHROOM SIDE OF THE DOOR.

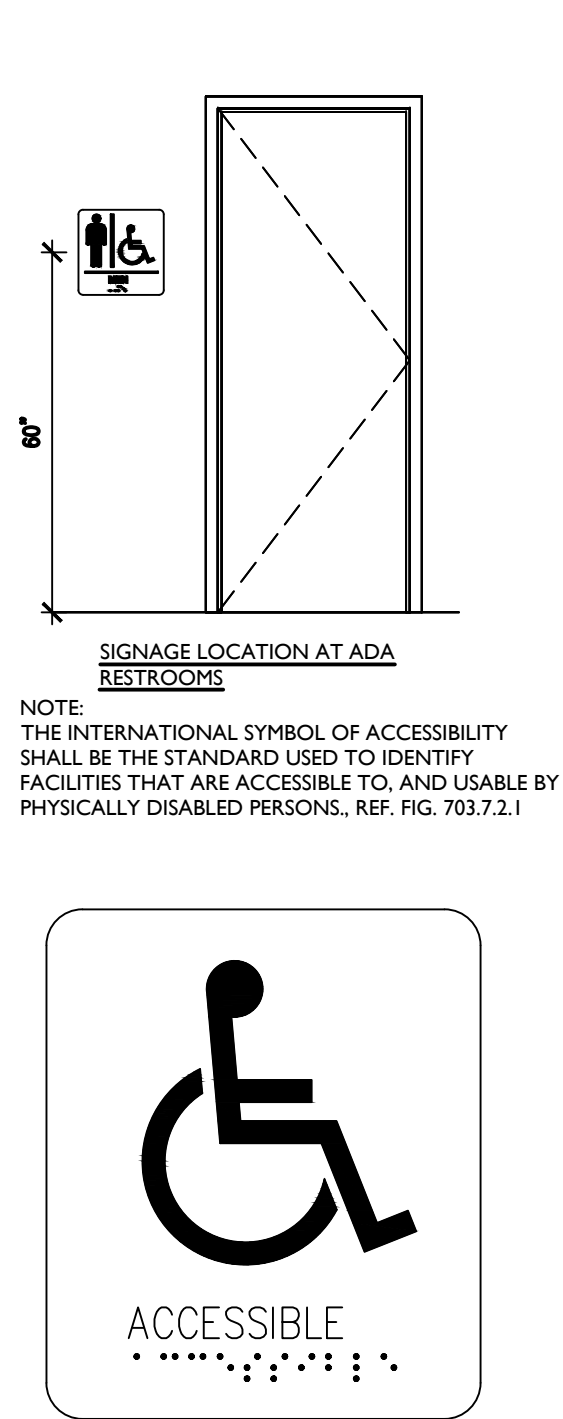
Doors Clearances

SCALE: NTS

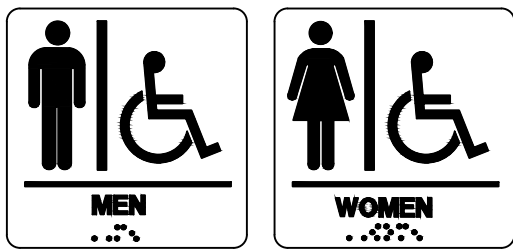


Water Fountain Clearances for ADA

SCALE: NTS



WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION 703.3. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL PREFERABLY ON THE RIGHT.



MOUNTING HEIGHT SHALL BE 60 INCHES
ABOVE THE FINISH FLOOR TO THE CENTER LINE OF THE SIGN.

MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3 INCHES OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECT OR STANDING WITHIN THE SWING OF THE DOOR.

LETTER HEIGHT SHALL BE $\frac{5}{8}$ " - 2" MAX

ALL UPPERCASE RAISED $\frac{1}{32}$ " WITH CORRESPONDING BRAILLE

General Signage

SCALE: NTS

DOOR AND FRAME SCHEDULE										
DOOR						FRAME		HARDWARE	NOTES	
NUMBER	TYP	SIZE			MATL	FINISH	MATL	FINISH		
		WD	HGT	THK					SET NO	
100/01	EXST	-	-	-	-	-	-	-	-	PANIC HARDWARE IS EXISTING TO REMAIN
102/01	B	3'-0"	9'-0"	-	-	-	-	-	HS-1	STOREFRONT SYSTEM IS TO MATCH ADJACENT STOREFRONT FINISHES
106/01	C	3'-0"	8'-0"	1"	ALUM	BLACK	ALUM	BLACK	HS-3	
106/02	D	3'-0"	7'-0"	1 3/4"	HM	PL2/PAINT	METAL	PAINT	HS-4	DOOR IS TO BLEND IN WITH WALLS. SEE ELEVATIONS.
107/01	A	3'-0"	7'-0"	1 3/4"	HM	PAINT	METAL	PAINT	HS-4	
108/01	A	3'-0"	7'-0"	1 3/4"	HM	PAINT	METAL	PAINT	HS-4	
110/01	EXST	-	-	-	-	PAINT	-	PAINT	-	PANIC HARDWARE IS EXISTING TO REMAIN
110/02	-	-	-	-	-	-	WOOD	PAINT	-	TRIM CASING TO BE 1/4" WIDER THAN WALL ON ALL SIDES FOR WALLCOVERING EDGE PROTECTION
111/01	A	3'-0"	7'-0"	1 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS
111/02	A	2'-8"	7'-0"	1 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS
111/03	A	2'-8"	7'-0"	1 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS
111/04	A	2'-8"	7'-0"	1 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS
111/05	A	2'-8"	7'-0"	1 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS
111/06	A	3'-0"	7'-0"	1 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS
111/07	A	2'-8"	7'-0"	1 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS
111/08	A	2'-8"	7'-0"	1 3/4"	HM	PLI	METAL	PAINT	HS-2	PAINTED FRAME TO MATCH WALLS

DOOR TYPE A

DOOR TYPE B

DOOR TYPE C

DOOR TYPE D

DOOR HARDWARE NOTES

- ALL EXISTING DOORS, FRAMES AND HARDWARE ARE TO REMAIN UNLESS NOTED OTHERWISE.
- CONTRACTOR TO COORDINATE ROUGH OPENING REQUIREMENTS FOR ALL NEW DOOR OPENINGS
- ALL DOORS SHALL HAVE ADA COMPLIANT HARDWARE AND ALLOW FREE EGRESS IN THE PATH OF EGRESS TRAVEL (TYP).
- DOORS LESS THAN 90" HGT - 3 SETS OF MORTISE HINGES (5" X 4-1/2" W). DOOR OVER 90" HGT - 4 SETS.
- KNOCK DOWN FRAMES ARE ACCEPTABLE IF CONTRACTOR FILLS AND SANDS MITERED JOINTS PRIOR TO PAINT.
- FINISH - MATTE BLACK FOR ALL HINGES AND HARDWARE UNO.
- NEW GLASS STOREFRONT HARDWARE TO MATCH EXISTING.
- DOORS TO COMPLY WITH ALL 7 CRITERIA OF SECTION 1010.1.9.9 & SECTION 1010.1.9.10 IN IBC 2018.
- HARDWARE SETS:
 - HS-1 ENTRY / EXIT (EXIT DEVICE, THRESHOLD, KEYED LOCK) INTERIOR DOOR
 - HS-2 PRIVACY (LEVER LATCH SET WITH OCCUPANCY LOCK, MATTE BLACK FINISH AND FLOOR STOP)
 - HS-3 PASSAGE (CONCEALED PIVOTS, PUSH/PULL BARS)
 - HS-4 PRIVACY (LEVER LOCK SET AND FLOOR STOP)

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Craft Putt - Lee's Summit

Summit Fair
840-M NW BLUE PKWY, SUITE M
LEE'S SUMMIT, MO 64086

[illegible]

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A700

SCHEDULES & ACCESSIBILITY

FIRE ALARM



LIGHTING

UPPER CASE LETTER INDICATES FIXTURE TYPE, LOWER CASE LETTER INDICATES SWITCHING DESIGNATION & UPPER CASE LETTER WITH NUMBER INDICATES CIRCUIT NUMBER



ELECTRICAL



MECHANICAL

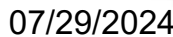
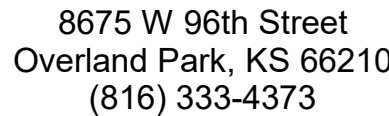


PLUMBING



ELECTRICAL	
DE100	ELECTRICAL DEMOLITION PLAN
E600	ELECTRICAL SCHEDULES
E601	ELECTRICAL SCHEDULES AND ONE-LINE DIAGRAM
EP100	ELECTRICAL NEW WORK PLAN
FIRE PROTECTION	
FP100	FIRE PROTECTION NEW WORK PLAN
FP500	FIRE PROTECTION DETAILS
LIGHTING	
DEL100	LIGHTING DEMOLITION PLAN
EL100	LIGHTING NEW WORK PLAN
MECHANICAL	
DM100	MECHANICAL DEMOLITION PLAN
M100	MECHANICAL NEW WORK PLAN
M500	MECHANICAL DETAILS
M600	MECHANICAL SCHEDULES
MEP	
MEP000	MEP LEGENDS AND SYMBOLS
MEP001	MEP SPECIFICATIONS
MEP002	MEP SPECIFICATIONS
MEP101	MEP NEW WORK ROOF PLAN
PLUMBING	
DP100	PLUMBING DEMOLITION PLAN
P100	PLUMBING WASTE & VENT NEW WORK PLAN
P101	PLUMBING DOMESTIC WATER AND GAS NEW WORK PLAN
P500	PLUMBING DETAILS
P600	PLUMBING SCHEDULES
P601	PLUMBING SCHEDULES
P700	PLUMBING DOMESTIC WATER PIPING ISOMETRIC
P701	PLUMBING WASTE AND VENT PIPING ISOMETRIC
P702	PLUMBING NATURAL GAS PIPING ISOMETRIC

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MO CERTIFICATE OF AUTHORITY
MO #1999137647

Summit Fair
1840-M NW BLUE PKWY, SUITE M
LEE'S SUMMIT, MO 64086

24.02. Craft Putt Lee's Summit

MEP000

ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL BUILDING, MECHANICAL, PLUMBING CODES NATIONAL ELECTRICAL CODE, NATIONAL FIRE PROTECTION CODE, EPA REGULATIONS, AND OCCUPATIONAL SAFETY AND HEALTH ACT.

A. APPLICABLE CODES

1. 2018 INTERNATIONAL BUILDING CODE (IBC)
2. 2018 INTERNATIONAL MECHANICAL CODE (IMC)
3. 2018 INTERNATIONAL PLUMBING CODE (IPC) PLUMBING CODE
4. 2017 NATIONAL ELECTRICAL CODE (NEC)
5. 2018 INTERNATIONAL FUEL GAS CODE (IFGC)
6. 2018 INTERNATIONAL FIRE CODE (IFC)
7. 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

- CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT TO PROVIDE COMPLETE AND FUNCTIONING INSTALLATIONS, AND MAKE MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL PROTECT ALL EXISTING WORK TO REMAIN, AND SHALL REPAIR ANY DAMAGED INCIDENTAL TO PERFORMANCE OF NEW WORK.
- ACCEPTANCE OF WORK SHALL BE SUBJECT TO OWNER'S REPRESENTATIVE APPROVAL OF WORK IN PLACE AS WELL AS SHOP DRAWINGS AND SAMPLES OF MATERIALS AND EQUIPMENT WHICH SHALL BE CHECKED BY CONTRACTOR BEFORE SUBMITTAL.
- CONTRACTOR SHALL KEEP PREMISES OF WORK AREA CLEAN DAILY, CLEAN AT PROJECT COMPLETION, AND SHALL REMOVE ALL REFUSE FROM SITE REGULARLY.
- CONTRACTOR SHALL BECOME COMPLETELY FAMILIAR WITH EXISTING CONDITIONS BEFORE STARTING NEW WORK. CONCEALED CONDITIONS SHALL BE ADDRESSED WITH DUE CAUTION SUCH THAT UTILITIES AND SYSTEMS ARE PROTECTED.
- CONTRACTOR SHALL WARRANT ALL NEW WORK FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE AND SHALL REPAIR OR REPLACE ANY DEFECTIVE WORK INCLUDING MATERIAL, LABOR AND EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
- EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND ARE NOT TO BE CONSTRUED AS "AS-BUILT" CONDITIONS, BUT ARE TO INDICATE THE INTENT OF THIS WORK.
- ALL PERMITS, LICENSES AND FEES THAT ARE REQUIRED BY GOVERNING AUTHORITIES FOR THE PERFORMANCE OF MECHANICAL AND ELECTRICAL WORK SHALL BE PROCURED AND PAID FOR BY THE CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL EQUIPMENT IN SUCH A MANNER AS TO CONTROL THE TRANSMISSION OF VIBRATION FROM ANY INSTALLED EQUIPMENT OR SYSTEM. SO THE SOUND LEVEL SHALL NOT EXCEED INCS. IN ANY OCCUPIED SPACE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY OBJECTIONABLE NOISE IN ANY OCCUPIED AREA DUE TO IMPROPERLY INSTALLED EQUIPMENT.
- FIXTURES, APPLIANCES, EQUIPMENT AND MATERIALS, WHICH ARE SUBJECT TO UNDERWRITERS LABORATORY TESTS, SHALL BEAR SUCH APPROVAL.
- MANUFACTURERS LISTED IN THE EQUIPMENT SCHEDULES ARE INTENDED TO ESTABLISH QUALITY ONLY AND DOES NOT LIMIT EQUAL PRODUCTS BY OTHER MANUFACTURERS. MECHANICAL AND ELECTRICAL DESIGNS ARE BASED ON THE REQUIREMENTS FOR THE SPECIFIED MANUFACTURERS LISTED ON THE EQUIPMENT SCHEDULES. CONDUT, DISCONNECTS, MOTOR STARTERS, BREAKERS, FUSES AND WIRE SIZES ARE SELECTED ON BASIS OF SCHEDULED EQUIPMENT. INCREASED CURRENT REQUIREMENTS NECESSITATING LARGER WIRE, BREAKERS, SWITCHES, ETCETERA, TO EQUIVOCATE ANY A TERMINATE OR SUBSTITUTE MANUFACTURERS EQUIPMENT. OTHER THAN AS SHOWN ON DRAWINGS SHALL BE PROVIDED WITHOUT ANY INCREASE IN CONTRACT PRICE BY CONTRACTOR FURNISHING THE EQUIPMENT.
- FOLLOW DRAWINGS IN LAYING OUT WORK, CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED, AND MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, THE ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH INSTALLATION.
- WORK INSTALLED BEFORE COORDINATING WITH OTHER TRADES CAUSING INTERFERENCE WITH WORK OF SUCH OTHER TRADES SHALL BE CHANGED TO CORRECT SUCH CONDITION WITHOUT INCREASE IN CONTRACT PRICE AND AS DIRECTED BY THE ARCHITECT.
- WHERE SPECIFIC DETAILS AND DIMENSIONS ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL TAKE MEASUREMENTS AND MAKE LAYOUTS FOR THE PROPER INSTALLATION OF THE WORK AND COORDINATION WITH ALL OTHER WORK ON THE PROJECT.
- DEFINITIONS:
- A. "PIPING" INCLUDES, IN ADDITION TO PIPE, ALL FITTINGS, VALVES, SLEEVES, HANGERS, AND OTHER SUPPORTS AND ACCESSORIES RELATED TO SUCH PIPING.
- B. "CONCEALED" MEANS HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, HUNG CEILINGS, EMBEDDED IN CONSTRUCTION, OR IN CRAWL SPACES.
- C. "EXPOSED" MEANS NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.
- D. THE WORDS "FURNISH AND INSTALL", "PROVIDE", "FURNISH", "INSTALL", OR EQUIVALENT WORDS ARE USED OR ARE UNDERSTOOD, TO MEAN THE CONTRACTOR SHALL FURNISH AND COMPLETELY INSTALL THE SYSTEM, SERVICE, EQUIPMENT, OR MATERIAL NAMED, TOGETHER WITH OTHER ASSOCIATED DEVICES, EQUIPMENT, MATERIAL, WIRING, PIPING, ETCETERA AS REQUIRED FOR A COMPLETE OPERATING INSTALLATION, AND CONFORMING TO THE MANUFACTURERS STANDARDS AND RECOMMENDATIONS.
- E. IT IS THE INTENT OF THE MECHANICAL SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION.

DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM. INDICATED DUCT LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS WERE USED TO SIZE DUCTS AND CALCULATE FRICTION LOSS FOR AIR-HANDLING EQUIPMENT SIZING AND FOR OTHER DESIGN CONSIDERATIONS. INSTALL DUCT SYSTEMS AS INDICATED UNLESS DEVIATIONS TO AVOID ARE LAID OUT. SIZES SHOWN ON DRAWINGS FOR RECTANGULAR DUCTS ARE AIR OPENING SIZES. INSTALL DUCTS ACCORDING TO SMACNA'S "HAC DUCT CONSTRUCTION STANDARDS" FURNISH AND INSTALL ALL STEEL MEMBERS AND ACCESSORIES NECESSARY TO PROVIDE A COMPLETE AND FINISHED INSTALLATION. INSTALL ROUND DUCTS IN MAXIMUM PRACTICAL LENGTHS. INSTALL DUCTS WITH FEWEST POSSIBLE JOINTS. INSTALL FACTORY-OR SHOP-FABRICATED FITTINGS WITH RADIIUS IN DEGREES IN DIRECTION, SIZE, AND SHAPE AND FOR BRANCH CONNECTIONS. JOINTS, TEES, BENDS, AND ELBOWS WITH RATINGS MINIMUM 1/4 TIMES WIDTH OF DUCT ON CENTER LINE.

- DUCT SCHEDULE:
- A. FABRICATE DUCTS WITH GALVANIZED SHEET STEEL. TYPE 1 HOOD EXHAUST DUCT TO BE WELDED MINIMUM 18-GAUGE OR 20-GAUGE STAINLESS STEEL.
- B. SUPPLY DUCT PRESSURE CLASS:
1. DUCTS BETWEEN CONSTANT-VOLUME AIR-HANDLING UNITS AND AIR OUTLETS: POSITIVE 2-INCH WATER GAUGE (W.G.) (500 PASCAL).
 2. DUCTS CONNECTED TO EQUIPMENT NOT LISTED ABOVE: POSITIVE 2-INCH WG (500 PASCAL).
- C. RETURN DUCT PRESSURE CLASS:
1. DUCTS CONNECTED TO AIR HANDLING UNITS AND AIR INLETS: POSITIVE OR NEGATIVE 2-INCH WG (500 PA).
 2. RETURN (AIR) SUPPLY AND RETURN DUCTS FOR A TOTAL OF 10 FEET.
- D. RETURN (AIR) SUPPLY AND RETURN DUCTS:
1. SUPPLY AIR DUCTS: FIBROUS GLASS, TYPE 1, 1 INCH (25 MILLIMETER) THICK.
 2. RETURN AIR DUCTS: FIBROUS GLASS, TYPE 1, 1 INCH (25 MILLIMETER) THICK.
- 1.3 DIFFUSERS, REGISTERS, AND GRILLES
- A. SOURCE QUALITY CONTROL
1. VERIFICATION OF PERFORMANCE: RATE DIFFUSERS, REGISTERS, AND GRILLES ACCORDING TO ASHRAE 70, "METHOD OF TESTING FOR RATING THE PERFORMANCE OF AIR OUTLETS AND INLETS."
- B. INSTALLATION
1. INSTALL DIFFUSERS, REGISTERS, AND GRILLES LEVEL AND PLUMB.
 2. INSTALL DIFFUSERS, REGISTERS, AND GRILLES WITH AIRTIGHT CONNECTIONS TO DUCTS AND TO ALLOW SERVICE AND MAINTENANCE OF DAMPERS AND AIR EXTRACTORS.
- C. AFTER INSTALLATION, ADJUST DIFFUSERS, REGISTERS, AND GRILLES TO AIR PATTERNS INDICATED, OR AS DIRECTED, BEFORE STARTING AIR BALANCING.
- 1.4 TEST, BALANCE AND START-UP
- A. START-UP OF HEATING/COOLING SYSTEMS, INCLUDING PACKAGED ROOFTOP UNITS WITH CONTROL SYSTEMS.
- TEST AND BALANCE OF EXHAUST AND HEATING/COOLING AIR SYSTEMS INCLUDING EACH AND EVERY DIFFUSER, GRILLE AND REGISTER AT AIR VOLUMES INDICATED ON THE DRAWINGS.
1. ADJUST ROOFTOP UNITS AND EXHAUST FANS TO DELIVER TOTAL INDICATED AIR FLOWS WITHIN THE MAXIMUM ALLOWABLE FAN SPEED LISTED BY THE MANUFACTURER.
 2. SUPPLY, RETURN, EXHAUST FANS AND EQUIPMENT ALONG WITH AIR OUTLETS AND INLETS SHALL BE ADJUSTED TO WITHIN PLUS OR MINUS 10 PERCENT.
- C. PREPARE AND SUBMIT FOR RECORD A REPORT OF THE SYSTEM TEST AND BALANCE INDICATING FINAL SETTINGS OF ALL EXHAUST FANS, HEATING/COOLING EQUIPMENT, CONTROL DAMPERS, DIFFUSERS, GRILLES AND REGISTERS.
- D. PREPARE AND SUBMIT FOR RECORD A PRE-CONSTRUCTION REPORT OF THE EXISTING SYSTEMS TEST AND BALANCE INDICATING FINAL SETTINGS OF ALL EXHAUST FANS, HEATING/COOLING EQUIPMENT, CONTROL DAMPERS, DIFFUSERS, GRILLES AND REGISTERS.
- 1.5 MOTORS
- A. MOTOR SIZES: MINIMUM SIZE AS INDICATED. IF NOT INDICATED, LARGE ENOUGH SO DRIVEN LOAD WILL NOT REQUIRE MOTOR TO OPERATE IN SERVICE FACTOR RANGE ABOVE 1.0.
- B. ENCLOSURE TYPE: TOTALLY ENCLOSED, FAN COOLED.
- 1.6 HANGERS AND SUPPORTS
- A. EQUIPMENT SUPPORTS
1. DESCRIPTION: WELDED, SHOP-OR FIELD-FABRICATED EQUIPMENT SUPPORT MADE FROM STRUCTURAL CARBON STEEL SHAPES.
 2. EQUIPMENT SUPPORTS SHALL HAVE INTEGRAL BASE PLATE, WELD NAILER, AND 18 GAUGE GALVANIZED STEEL FLASHING CAP.
- B. MISCELLANEOUS MATERIALS
1. STRUCTURAL STEEL: ASTM A 36/A 36M CARBON-STEEL PLATES, SHAPES, AND BARS; BLACK AND GALVANIZED.
 2. GROUT: ASTM C 1107, FACTORY-MIXED AND PACKAGED, DRY, HYDRAULIC-CEMENT, NONSHRINK AND NONMETALLIC GROUT; SUITABLE FOR INTERIOR AND EXTERIOR APPLICATIONS.
 - a. PROPERTIES: NONSTAINING, NONCORROSIVE, AND NONANGEOUS.
 - b. DESIGN MIX: 5000-POUNDS PER SQUARE-INCH (PSI), 28-DAY COMPRESSIVE STRENGTH.
- 1.7 CENTRIFUGAL ROOF VENTILATORS
- A. HOUSING: REMOVABLE, SPUN-ALUMINUM, DOME TOP AND OUTLET BAFFLE. SQUARE, ONE-PIECE, ALUMINUM BASE WITH VENTURI INLET CONE.
1. UPLAST UNITS: PROVIDE SPUN-ALUMINUM DISCHARGE BAFFLE TO DIRECT DISCHARGE AIR UPWARD, WITH RAIN AND SNOW DRAINS.
 2. HINGED SUBBASE: GALVANIZED-STEEL HINGED ARRANGEMENT PERMITTING SERVICE AND MAINTENANCE.
- C. FAN WHEELS: ALUMINUM HUB AND WHEEL WITH BACKWARD-INCLINED BLADES.
- D. BELT DRIVES (WHERE APPLICABLE):
1. RESILIENTLY MOUNTED TO HOUSING.
 2. FAN SHAFT: TURNED, GROUND, AND POLISHED STEEL, KEYS TO WHEEL HUB.
 3. SHAFT BEARINGS: PERMANENTLY LUBRICATED, PERMANENTLY SEALED, SELF-ALIGNING BALL BEARINGS.
 4. PULLEYS: CAST-IRON, ADJUSTABLE-PITCH MOTOR PULLEY.
 5. FAN AND MOTOR ISOLATED FROM EXHAUST AIRSTREAM.
- E. ACCESSORIES:
1. VARIABLE-SPEED CONTROLLER: SOLID-STATE CONTROL TO REDUCE SPEED FROM 100 TO LESS THAN 50 PERCENT.
 2. DISCONNECT SWITCH: NONFUSIBLE TYPE, WITH THERMAL-OVERLOAD PROTECTION MOUNTED INSIDE OR OUTSIDE FAN HOUSING. FACTORY WIRED THROUGH AN INTERNAL ALUMINUM CONDUIT.
 3. GRID SCREENS: REMOVABLE, 1/2-INCH (13-MM) MESH, ALUMINUM OR BRASS WIRE.
 4. DAMPERS: COUNTERBALANCED, PARALLEL-BLADE. BACKDRIFT DAMPERS MOUNTED IN CURB BASE. FACTORY SET TO CLOSE WHEN FAN STOPS. DAMPER SHALL BE A MINIMUM OF 18" FROM THE FAN INLET. DAMPER SHALL HAVE A MAXIMUM LEAKAGE RATE OF 20 CFM /FT² AT 1.0 IN.W.G. TESTED ACCORDING TO AMCA STANDARD 500.
- F. ROOF CURBS: GALVANIZED STEEL, MITERED AND WELDED CORNERS; 1-1/2-INCH-(40-MM) THICK, RIGID, FIBERGLASS INSULATION ADHERED TO INSIDE WALLS, AND 1/12-INCH (40-MM) WOOD NAILER. SIZE AS REQUIRED TO SUIT ROOF OPENING AND FAN BASE.
1. CONFIGURATION: COORDINATE WITH EXISTING ROOF CONFIGURATION.
 2. OVERALL HEIGHT: 18 INCHES (FIELD VERIFY).
 3. SOUND CURB: CURB WITH SOUND-ABSORBING INSULATION.
 4. PITCH MOUNTING: MANUFACTURE CURB FOR ROOF SLOPE.
 5. METAL LINER: GALVANIZED STEEL.
 6. MOUNTING PEEDESTAL: GALVANIZED STEEL WITH REMOVABLE ACCESS PANEL.
 7. VENTED CURB: UNLINED WITH LOUVERED VENTS IN VERTICAL SIZES.
 8. ITEMS WITH HINGED BASES SHALL BE FURNISHED WITH PADLOCK HASPS FOR PADLOCKING. THE ANCHORING OF THE HASP COMPONENTS SHALL BE SUCH THAT THEY CANNOT BE REMOVED WHEN IN THE LOCKED POSITION.

1.1 FIRE ALARM SYSTEM

A. NONCODED, ADDRESSABLE SYSTEM, WITH MULTIPLEXED SIGNAL TRANSMISSION, DEDICATED TO FIRE-ALARM SERVICE ONLY.

B. FIRE-ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES:

2. DUCT SMOKE DETECTORS.
 3. KITCHEN EXHAUST HOOD.
 4. ACTIVATION OF MANUAL PULL STATION.
 - C. FIRE-ALARM SIGNAL SHALL INITIATE THE FOLLOWING ACTIONS:
 1. CONTINUOUSLY OPERATE ALARM-NOTIFICATION APPLIANCES
 2. INITIATE ALARM AT THE EXISTING FIRE-ALARM CONTROL UNIT.
 3. SWITCH HEATING, VENTILATING, AND AIR-CONDITIONING EQUIPMENT CONTROLS TO FIRE-ALARM MODE.
 - D. SYSTEM TROUBLE AND SUPERVISORY SIGNAL ACTIONS: INITIATE NOTIFICATION APPLIANCE AND ANNUNCIATE AT FIRE-ALARM CONTROL UNIT.
 - E. NOTIFICATION APPLIANCES: CONNECTED TO NOTIFICATION APPLIANCE SIGNAL CIRCUITS, ZONED AS INDICATED, EQUIPPED FOR MOUNTING AS INDICATED AND WITH SCREW TERMINALS FOR SYSTEM CONNECTIONS.
 1. COMBINATION DEVICES: FACTORY-INTEGRATED AUDIBLE AND VISIBLE DEVICES IN A SINGLE-MOUNTING ASSEMBLY, EQUIPPED FOR MOUNTING AS INDICATED AND WITH SCREW TERMINALS FOR SYSTEM CONNECTIONS.
 2. VISIBLE NOTIFICATION APPLIANCES: XENON STROBE LIGHTS COMPLY WITH UL 1971, WITH CLEAR OR NOMINAL WHITE POLYCARBONATE LENS MOUNTED ON AN ALUMINUM FACEPLATE. THE WORD "FIRE" IS ENGRAVED IN MINIMUM 1-INCH- (MM)-HIGH LETTERS ON THE LENS.
 - F. MANUAL FIRE-ALARM BOXES
 1. GENERAL REQUIREMENTS FOR MANUAL FIRE-ALARM BOXES: COMPLY WITH UL 38. BOXES MUST BE FINISHED IN RED V. MOLDED, RAISED-LETTER OPERATING INSTRUCTIONS IN CONTRASTING COLOR; MUST SHOW VISIBLE INDICATION OF OPERATION; AND MUST BE MOUNTED ON RECESSED OUTLET BOX. IF INDICATED AS SURFACE MOUNTED, PROVIDE MANUFACTURER'S SURFACE BACK BOX.
 - A. DOUBLE-ACTION MECHANISM REQUIRING TWO ACTIONS TO INITIATE ALARM. PULL-LEVER TYPE, WITH INTEGRATED ADDRESSABLE MODULE ARRANGED TO COMMUNICATE MANUAL-STATION STATUS (NORMAL, ALARM, OR TROUBLE) TO FACU.
 - B. STATION RESET: KEY- OR WRENCH-OPERATED SWITCH.
 - C. INDOOR PROTECTIVE SHIELD: FACTORY-FABRICATED, CLEAR PLASTIC ENCLOSURE HINGED AT TOP TO PERMIT ACCESS TO LIFTING FOR ACCESS TO INITIATE ALARM.
 - D. NOT TO BE USED IN INDOOR AREAS.
 - G. TESTS AND INSPECTIONS.
 1. VISUAL INSPECTION: CONDUCT VISUAL INSPECTION PRIOR TO TESTING.
 - A. INSPECTION SHALL BE BASED ON COMPLETED RECORD DRAWINGS AND SYSTEM DOCUMENTATION THAT IS REQUIRED BY NFPA 72 IN ITS "COMPLETION DOCUMENTS, PREPARATION" TABLE IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS OF FIRE ALARM SYSTEMS" CHAPTER.
 - B. COMPLY WITH "VISUAL INSPECTION FREQUENCIES" TABLE IN THE "INSPECTION" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72, RETAIN THE "INITIAL REACCEPTANCE" COLUMN AND LIST ONLY THE INSTALLED COMPONENTS.
 2. SYSTEM TESTING: COMPLY WITH "TEST METHODS" TABLE IN THE "TESTING" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
 3. TEST AUDIBLE APPLIANCES FOR THE PUBLIC OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. PERFORM THE TEST USING A PORTABLE SOUND-LEVEL METER COMPLYING WITH TYPE 2 REQUIREMENTS IN ANSI S1.4.
 4. TEST VISIBLE APPLIANCES FOR THE PUBLIC OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
 5. FACTORY-AUTHORIZED SERVICE REPRESENTATIVE SHALL PREPARE THE "FIRE ALARM SYSTEM RECORD OF COMPLETION" IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS OF FIRE ALARM SYSTEMS" CHAPTER IN NFPA 72 AND THE "INSPECTION AND TESTING FORM" IN THE "RECORDS" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
 - H. FIRE-ALARM SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
 - I. PREPARE TEST AND INSPECTION REPORTS AND SUBMIT COPIES FOR RECORD.
 - J. TFX DEVICES ARE NOT ALLOWED. ALL NEW DEVICES, DETECTORS, PULL STATIONS, ETC. CONNECTED TO THE CITY SYSTEM, SHALL BE INDET DEVICES, WIRED BACK TO THE NEAREST INDET PANEL. ALL INSTALLATIONS SHALL MEET ALL APPLICABLE CODES.

1.2 PATHWAYS

 - A. CONDUIT AND BOXES: COMPLY WITH REQUIREMENTS IN DIVISION 26 SECTION "TRAYWAY AND BOXES FOR ELECTRICAL SYSTEMS".
 1. "FLEXIBLE METAL CONDUIT SHALL NOT BE USED.
 2. OUTLET BOXES SHALL BE NO SMALLER THAN 2 INCHES (50 MM) WIDE, 3 INCHES (75 MM) HIGH, AND 2-1/2 INCHES (64 MM) DEEP.
 3. MINIMUM CONDUIT SIZE IS 3/4" DIAMETER.

1.3 FIRE ALARM WIRE AND CABLE

 - A. GENERAL WIRE AND CABLE REQUIREMENTS: NRTL LISTED AND LABELED AS COMPLYING WITH NFPA 70, ARTICLE 760.
 - B. SIGNALING LINE CIRCUITS: TWISTED, SHIELDED PAIR, NOT LESS THAN NO. 18 AWG.
 1. CIRCUIT INTEGRITY CABLE: TWISTED SHIELDED PAIR, NFPA 70, ARTICLE 760, CLASSIFICATION CI, FOR POWER-LIMITED ALARM SIGNAL SERVICE TYPE FPL. NRTL LISTED AND LABELED AS COMPLYING WITH UL 1424 AND UL 2196 FOR A 2-HOUR RATING.
 - C. NON-POWER-LIMITED CIRCUITS: SOLID-COPPER CONDUCTORS WITH 600-V RATED, 75 DEGREES CELSIUS, COLOR-CODED INSULATION.
 1. LOW-VOLTAGE CIRCUITS: NO. 16 AWG, MINIMUM.
 2. LINE-VOLTAGE CIRCUITS: NO. 12 AWG, MINIMUM.

1.2 GROUNDING SHALL CONSIST OF COPPER CONDUCTORS IN CONDUIT. GROUNDING AND BONDING SHALL COMPLY WITH NEC ARTICLE 250. METALLIC RACEWAYS SHALL BE GROUNDED.

13. ELECTRICAL EQUIPMENT EXPOSED TO WEATHER SHALL BE WEATHERPROOF.
14. WIRE:
- A. ALL WIRE SHALL BE THIN FOR ALL EXTERIOR OR POSSIBLE WET LOCATIONS.
 - B. ALL WIRE SHALL BE THIN OR THIN FOR ALL INTERIOR OR DRY LOCATIONS.
 - C. ALL BUILDING WIRE SHALL BE 600 VOLTS DC COPPER.
 - D. THE MINIMUM WIRE SIZE FOR POWER AND LIGHTING SHALL BE #12 AWG. FOR CONTROLS #14 AWG.
 - E. THE USE OF ROMEX SHALL NOT BE PERMITTED.
 - F. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT AND WIRE ROUTING. ANY LENGTHS EXCEEDING 75 SHALL HAVE VOL. LOSS CALCULATED AND WIRE SIZES ADJUSTED AS REQUIRED BY CODE.
 - I. COLOR COORDING:
 - a. 289127Y: BLACK, RED, BLUE, WHITE. PROVIDE WITH SOLID GREEN GROUNDING CONDUCTOR.
 - b. 489127Y: YELLOW (PHASE A), BROWN (PHASE B), ORANGE (PHASE C), GRAY (NEUTRAL). PROVIDE WITH SOLID GREEN GROUNDING CONDUCTOR.
15. RACEWAYS:
- A. ALL UNDERSLAB OR BELOW GRADE RACEWAYS SHALL BE SCHEDULE 40 PVC CONDUITS WITH RIGID GALVANIZED STEEL "RGS" ELBOWS AND RISERS TO ABOVE GRADE OR SUB.
 - B. ALL CONDUITS INSIDE BUILDING SHALL BE 1/2" ELECTRICAL METALLIC TUBING "EMT" MINIMUM.
 - C. FLEXIBLE METAL CONDUIT MAY BE USED FOR FINAL CONNECTION TO LIGHT FIXTURES AND MOTORS 6" MAXIMUM LENGTH ALLOWED.
 - D. RIGID OR INTERMEDIATE GALVANIZED STEEL CONDUIT SHALL BE USED FOR ALL EXTERIOR APPLICATIONS ABOVE GRADE.
 - E. SEALTITE SHALL BE USED FOR ALL EXTERIOR CONNECTIONS TO EQUIPMENT.
 - F. ALL CONDUITS SHALL BE SUPPORTED FROM ROOF STRUCTURAL MEMBERS PER N.E.C. NO RACEWAYS SHALL BE ATTACHED DIRECTLY TO ROOF DECK.
 - H. ALL RACEWAYS SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING WALLS OR FLOORS.
 - I. PROVIDE PLASTIC BUSHINGS AT OPEN ENDS OF ALL CONDUITS WITH LOW VOLTAGE WIRING.
 - J. SEAL ALL PENETRATIONS THROUGH WALLS OR FLOOR WITH APPROPRIATE CAULK OR GROUT. SEAL PENETRATIONS THROUGH RATED WALLS, FLOORS, OR CEILINGS WITH UL LISTED FIRE STOP COMPOUND.
 - K. WIRE PULLING EQUIPMENT:
 - 1. PROVIDE POLYETHYLENE CORDS FOR PULLING WIRE.
 - 2. PROVIDE PULLING WIRES FOR TELEPHONE AND OTHER EMPT CONDUIT SYSTEMS REQUIRED. WITHOUT SPLICES AND AMPLE EXPOSED LENGTHS AT EACH END.
16. LUMINAIRES:
- A. ALL LIGHT FIXTURES SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO LIGHT FIXTURE SCHEDULE FOR SPECIFICATIONS.
 - B. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO SUPPORT LIGHT FIXTURES. LIGHT FIXTURES IN LAY-IN CEILING SHALL BE INDEPENDENTLY SUPPORTED WITH WIRE AT ALL FOUR CORNERS OF FIXTURE.
 - C. REPLACE DEFECTIVE LAMPS, LED ARRAYS, DRIVERS AND BALLASTS PRIOR TO PROJECT COMPLETION.
17. DEVICES
- A. POWER EQUIPMENT SHALL BE NEW AND BEAR A UL LABEL.
 - B. COORDINATE WIRING DEVICE COLORS WITH ARCHITECT, 20 AMP FEDERAL SPECIFICATION GRADE WITH STAINLESS STEEL COV PLATES. COORDINATE FINISH COLOR WITH LIGHTING. ALL SWITCHES, RECEPTACLES, ETC. SHALL BE HEAVY-DUTY, SPECIFIC GRADE.
18. DISCONNECT SWITCHES
- A. MATERIAL: DISCONNECT SWITCHES SHALL BE NEMA TYPE HD (HEAVY DUTY) QUICK-MAKE, QUICK-BREAK DISCONNECT SWITCH NOT FURNISHED BY OTHERS WITH EQUIPMENT, OR WHERE REQUIRED BY CODE. SWITCHES SHALL BE NON-FUSIBLE UNLESS INDICATED TO BE FUSIBLE.
 - 1. MOTOR CIRCUIT DISCONNECT SWITCHES SHALL BE HORSERPOWER RATED TO MATCH THE MOTOR LOAD.
 - 2. NON-FUSIBLE DISCONNECTS SHALL BE RATED 30 AMPS UNLESS OTHERWISE INDICATED.
 - B. ACCESSORIES: SWITCH ENCLOSURES SHALL BE RATED R3 NR FOR OUTDOOR AND WET LOCATIONS, UNLESS OTHERWISE SPECIFIED OR INDICATED ON THE DRAWINGS.
 - 1. ELECTRICAL INTERLOCK: SWITCH SHALL BE FURNISHED WITH INTERLOCK CONTACTS.
 - C. CONTROL: SWITCHES SHALL HAVE A DUAL COVER INTERLOCK TO PREVENT DOOR OPENING WITH SWITCH CLOSED AND TO PREVENT CLOSING SWITCH WITH DOOR OPEN.
 - 1. SWITCH SHALL BE PAD LOCKABLE IN "OPEN" AND "CLOSED" POSITION.
19. DISTRIBUTION EQUIPMENT:
- A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING AGENCY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION A APPLICATION.
 - B. COMPLY WITH NEMA PB 1.
 - C. COMPLY WITH NFPA 70.
 - D. PANELBOARD PHASE, NEUTRAL, AND GROUND BUSES:
 - 1. MATERIAL: TIN-PLATED ALUMINUM.
 - a. PLATING MUST RUN ENTIRE LENGTH OF BUS.
 - b. BUS MUST BE FULLY RATED FOR ENTIRE LENGTH.
 - 2. INTERIORS MUST BE FACTORY ASSEMBLED INTO UNIT. REPLACING SWITCHING AND PROTECTIVE DEVICES MAY NOT DISTURB ADJACENT UNITS OR REQUIRE REMOVING MAIN BUS CONNECTORS.
 - 3. EQUIPMENT GROUND BUS: ADEQUATE FOR FEEDER AND BRANCH-CIRCUIT EQUIPMENT GROUNDING CONDUCTORS; BC TO BOX.
 - E. CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL AND SIZES.
 - 1. MATERIAL: TIN-PLATED ALUMINUM.
 - 2. TERMINATIONS MUST ALLOW ADOPT USE OF 75 DEG C RATED CONDUCTORS WITHOUT DERATING.
 - 3. SIZE: LOGS SUITABLE FOR INDICATED CONDUIT SIZES, WITH ADDITIONAL GUTTER SPACE, IF REQUIRED, FOR LARGE CONDUCTORS.
 - 4. MAIN AND NEUTRAL LOGS: COMPRESSION TYPE: WITH LOGS ON NEUTRAL BAR FOR EACH POLE IN PANELBOARD.
 - 5. GROUND LOGS WITH BUS-CONFIGURED TERMINATORS: COMPRESSION TYPE: WITH LOGS ON BAR FOR EACH POLE IN PANELBOARD.
 - F. PANELBOARD NAMEPLATES: LABEL EACH PANELBOARD WITH NAMEPLATE WITH PERMANENT PLASTIC LAMINATE LABEL. G. DEVICE NAMEPLATES: LABEL EACH BRANCH CIRCUIT DEVICE IN POWER PANELBOARDS WITH NAMEPLATE COMPLYING WITH REQUIREMENTS FOR IDENTIFICATION SPECIFIED IN SECTION 20555 "IDENTIFICATION FOR ELECTRICAL SYSTEMS".
 - H. CIRCUIT DIRECTORY:
 - 1. PROVIDE DIRECTORY CARD INSIDE PANELBOARD DOOR, MOUNTED IN TRANSPARENT CARD HOLDER.
 - I. ALL BREAKERS SHALL BE BOLT-ON TYPE.
 - J. ALL BREAKERS SHALL BE RATED TO WITHSTAND INCOMING AVAILABLE FAULT CURRENT FROM UTILITY COMPANY TRANSFORMER.
 - K. SERIES RATING MAY BE ALLOWED IF ACCEPTABLE BY LOCAL CODES. ALL SERIES RATED APPLICATION MUST MEET ALL N.E.C. REQUIREMENTS.
 - L. PROVIDE ENGRAVED PLATING WITH AVAILABLE FAULT CURRENT AT SERVICE DISCONNECT AND AT EACH PANELBOARD.
 - M. CONTRACTOR SHALL PROVIDE ARC FLASH STUDY AND LABELING. LABELS SHALL BE PROVIDED AT SERVICE ENTRANCE, PANELBOARD, HVAC EQUIPMENT AND OTHER LOCATIONS AS REQUIRED.
- 1.10. TRANSFORMERS
- A. PROVIDE DRY-TYPE TRANSFORMER AS SHOWN ON DRAWINGS. UNLESS SPECIFIED OTHERWISE, DESIGN, MANUFACTURE, AND TESTING OF TRANSFORMER SHALL MEET REQUIREMENTS OF NEMA NO. ST 20 AND UL STANDARDS.
 - B. TRANSFORMERS SHALL HAVE SEPARATE PRIMARY AND SECONDARY WINDINGS FOR EACH PHASE. PRIMARY WINDING OF TRANSFORMERS SHALL HAVE FOUR 0R 8/2 TAPS. TWO OF WHICH SHALL PROVIDE 2+10% INCREMENTS ABOVE FULL RATED VOLTAGE AND TWO OR FOUR OF WHICH SHALL PROVIDE 2+10% INCREMENTS BELOW FULL RATED VOLTAGE.
 - C. TRANSFORMERS SHALL HAVE 115 DEGREES C INSULATION SYSTEM RATED FOR CONTINUOUS OPERATION AT RATED KVIA, TRANSFORMER SURFACE TEMPERATURE RISE SHALL NOT EXCEED 65 DEGREES CELSIUS.
 - D. PROVIDE SUITABLE TERMINAL COMPARTMENT TO ACCOMMODATE REQUIRED PRIMARY AND SECONDARY WIRING CONNECTION SIDE OR BOTTOM CONDUIT ENTRANCE. TERMINAL COMPARTMENT TEMPERATURE SHALL NOT EXCEED 75 DEGREES CELSIUS W/ TRANSFORMER IS OPERATING AT RATED LOAD WITH AMBIENT TEMPERATURE OF 40 DEGREES CELSIUS. TERMINALS FOR WIRING SHALL BE SUITABLE FOR COPPER.
 - E. TRANSFORMER SHALL BE ARC RATED. THREE-PHASE TRANSFORMERS SHALL BE FULLY ENCLOSED IN STEEL ENCLOSURES. ALL WIRING SHALL BE COPPER ONLY.
 - F. SOUND LEVELS DETERMINED BY NEMA STANDARDS SHALL NOT EXCEED 50 DB.



MO CERTIFICATE OF AUTHORITY
MO #1999137647

Summit Fair
3840-M NW BLUE PKWY, SUITE M
LEE'S SUMMIT, MO 64086

[illegible]

MEP SPECIFICATIONS

MEP001

1. CONTRACTOR SHALL PROVIDE PRODUCT DATA FOR EACH TYPE OF NATURAL GAS SPECIALLY AND SPECIAL DUTY VALVE INCLUDE PRESSURE RATING, RATED CAPACITY, AND SETTINGS OF SELECTED MODES. COMPLY WITH NFPA 54, "NATIONAL FUEL GAS CODE" FOR GAS PIPING MATERIALS AND COMPONENTS; INSTALLATIONS, AND INSPECTING, TESTING, AND PURGING. PROVIDE LISTING/APPROVAL STAMP, LABEL, OR OTHER MARKING ON EQUIPMENT MADE TO SPECIFIED STANDARDS.

12. GAS VALVES, 2 INCH NPS (DN25) AND SMALLER, 125 PSIG (860 KPA) WOG MINIMUM, EQUIVALENT TO ASME B31.3, NONLUBRICATED, PLUS TYPE WITH POLYETHERETHERETHER (PETE) LINING OR SLEEVE, BRAGG/PATTERN, CAST, IRON BODY, ONE SHUT OFF OR FLAT HEAD AND THREADED ENDS CONFORMING TO ASME B1.20.1. A LOCKING DEVICE. INCLUDE LOCKING (TAMPERPROOF) FEATURE.

13. UNIONS, TRANSITION AND SPECIAL FITTINGS, AND VALVES WITH PRESSURE RATINGS TO BE SAME AS OR HIGHER THAN SYSTEM PRESSURE RATING MAY BE USED IN APPLICATIONS BELOW, EXCEPT WHERE OTHERWISE INDICATED.

A. LOW PRESSURE, 0.5 PSIG (0.45 KPA) OR LESS, NATURAL GAS SYSTEMS: USE THE FOLLOWING:

1. 1-INCH NPS (DN25) AND SMALLER, STEEL PIPE, MALLEABLE, IRON THREADED FITTINGS, AND THREADED JOINTS
2. 1-1/4 TO 2-INCH NPS (DN42 TO 50) STEEL PIPE, MALLEABLE, IRON THREADED FITTINGS, AND THREADED JOINTS

B. MEDIUM PRESSURE, 0.5 TO 5 PSIG (0.45 TO 13.8 KPA), NATURAL GAS SYSTEMS: USE THE FOLLOWING:

1. 1-INCH NPS (DN25) AND SMALLER, STEEL PIPE, BUTT, WELDING FITTINGS, AND WELDED JOINTS
2. 1-1/4 INCH NPS (DN42) AND LARGER, STEEL PIPE, BUTT, WELDING FITTINGS, AND WELDED JOINTS

14. PROVIDE GAS SHUTOFF VALVES FOR ALL EQUIPMENT. INSTALL DIPS AT POINTS WHERE CONDENSATE MAY COLLECT. LOCATE WHERE, REALLY ACCESSIBLE TO PERMIT CLEANING AND EMPTYING. DO NOT INSTALL WHERE CONDENSATE WOULD BE SUBJECT TO FREEZING. CONSTRUCT DRIPS AND SEDIMENT TRAPS USING THE FITTINGS WITH BOTTOM OUTLET PLUGGED OR CAPPED. USE MINIMUM LENGTH MINIMUM OF 5 PIPE DIAMETERS, BUT NOT LESS THAN 15 INCH (381 MM) IN LENGTH. SAME SIZE AS CONNECTED PIPE. INSTALL WITH SPACE BETWEEN BOTTOM OF TRAP AND FLOOR FOR REMOVAL OF PUGS OR CAP. CONCEAL PIPE INSTALLATIONS IN WALLS, PIPE SPACES, UTILITY SPACES, ABOVE CEILINGS, BELOW GRADE OR FLOORS, AND IN FLOOR CHANNELS. EXCEPT WHERE INDICATED TO BE EXPOSED TO VIEW, INSTALL GAS PIPING AT UNIFORM GRADE OF 0.1 PERCENT SLOPE UPWARD TOWARD RISERS. USE ELECTRIC REDUCER FITTINGS TO MAKE REDUCTIONS IN PIPE SIZES. INSTALL FITTINGS WITH LEVEL SIDE DOWN. CONNECT BRANCH PIPING FROM TOP OR SIDE OF HORIZONTAL PIPES. INSTALL UNIONS IN PIPES 2, INCH NPS (DN50) AND SMALLER, ADJACENT TO EACH VALVE, AT FINAL CONNECTION TO EACH EQUIPMENT, AND ELSEWHERE AS INDICATED. UNIONS ARE NOT REQUIRED ON FLANGED VESSELS. INSTALL STRAINERS ON SUPPLY SIDE OF EACH CONTROL VALVE. GAS PRESSURE REGULATOR, SLOMOVAL VALVE, AND ELSEWHERE AS INDICATED. INSTALL DIELECTRIC FITTINGS (UNIONS) WITH FERROUS AND BRASS OR BRONZE END CONNECTIONS, SEPARATED BY INSULATING MATERIAL, WHERE PIPING OF DISSIMILAR METALS IS JOINED.

15. STRAINERS

A. SIZE 2 INCH AND UNDER:

1. CLASS 150, THREADED BRODIE BODY 300 PSI PATTERN WITH 0.8 MM (1/32 INCH) STRAINING STEEL PERFORATED SCREEN.

16. UNIONS

A. FOR USE WITH COOPER COPPER SHALL BE CAST BRASS OR CAST BRONZE WITH GROUND JOINT SPHERICAL SEAT AND WITH CAST BRASS OR BRONZE IRON BRIGHT COPPER SMOOTH ENDS.

B. UNIONS FOR USE IN FERROUS PIPE SHALL BE MALLEABLE IRON WITH BRASS TO IRON GROUND JOINT SPHERICAL SEAT, SCREWED ENDS, AND RATED FOR NOT LESS THAN 300 PSI WATER WORKING PRESSURE.

17. BALL VALVES SHALL BE MSS SP-11, BRONZE, TWO-PIECE BODY, CHROME PLATED BRASS BALL, FULL PORT, TEFLON SEATS AND STUFFING BOX, BLOW OUT PROOF STEM, LEVER HANDLE WITH BALANCING STOPS, SOLDER ENDS.

18. PLUG VALVES SHALL BE RATED AT 150 PSI WOG WITH BRONZE BODY, STRAIGHTWAY PATTERN, SQUARE HEAD, AND THREADED ENDS.

19. PIPING INSTALLATION

A. REAM PIPES AND TUBES. CLEAN OFF SCALE AND DIRT, INSIDE AND OUTSIDE BEFORE ASSEMBLY. REMOVE WELDING SLAG OR OTHER FOREIGN MATERIAL FROM PIPING. DURING CONSTRUCTION, UNTIL GAS SYSTEM IS FULLY OPERATIONAL, KEEP ALL OPENINGS IN PIPING AND EQUIPMENT CLOSED EXCEPT WHEN ACTUAL WORK IS BEING PERFORMED ON THAT ITEM OR SYSTEM. PROVIDE CLOSURES, PLUGS, CAPS, BLIND FLANGES OR OTHER SIMILAR ITEMS SPECIFICALLY DESIGNED FOR THIS PURPOSE.

B. RUN PIPE LINES STRAIGHT AND TRUE, PARALLEL TO BUILDING LINES WITH MINIMUM USE OF OFFSETS AND COUPLINGS. PROVIDE OFFSETS ONLY TO PROVIDE HEADROOM OR CLEARANCE AND TO PROVIDE FLEXIBILITY IN PIPE LINES. CHANGES IN DIRECTION OF PIPE LINES SHALL BE MADE ONLY WITH FITTINGS OR PIPE BENDS. CHANGES IN SIZE SHALL BE MADE ONLY WITH FITTINGS. DO NOT USE MITER FITTINGS, FACE OR FLUSH BUSHINGS OR STREET ELBOWS. ALL FITTINGS SHALL BE OF THE LONG RADIOUS TYPE, UNLESS OTHERWISE INDICATED. USE FULL AND DOUBLE LENGTHS OF PIPE WHEREVER POSSIBLE.

C. CUT PIPE TO EXACT MEASUREMENT AND INSTALL WITHOUT SPRINGING OR FORCING EXCEPT IN CASE OF EXPANSION LOOPS WHERE COOL SPRINGING IS INDICATED. TAKE PARTICULAR CARE TO AVOID CREATING, EVEN TEMPORARILY, UNEQUAL LOADS, FORCES OR STRAINS ON CONNECTIONS. EQUIPMENT OR BUILDING ELEMENTS WITH PIPING CONNECTIONS OR PIPING SUPPORTS.

D. INSTALL PIPING TO ALL EQUIPMENT AND CONNECTIONS AND CONTRACTION WITHOUT STRESSING PIPE OR EQUIPMENT CONNECTIONS.

E. PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND FOR ACCESS TO VALVES, AIR VENTS, DRAINS AND UNIONS.

F. FINAL CONNECTIONS TO ALL EQUIPMENT AND FIXTURES SHALL BE MADE IN A MANNER THAT WILL PERMIT THE COMPLETE REMOVAL OF ANY FIXTURES OR ANY PIECE OF EQUIPMENT WITHOUT CUTTING PIPE LINES.

G. USE MAIN SIZED SADDLE TYPE BRANCH CONNECTIONS FOR DIRECTLY CONNECTING BRANCH LINES TO MAINS IN STEEL PIPING SYSTEMS WHEN THE MAIN IS AT LEAST TWO PIPE SIZES LARGER THAN THE BRANCH PIPE. DO NOT PROJECT BRANCH PIPES INSIDE OF MAIN PIPES. USE MANUFACTURED FITTINGS FOR BRANCH PIPES THAT ARE THE SAME SIZE AS THE MAIN OR ONE PIPE SIZE SMALLER THAN THE MAIN PIPES. PROVIDE UNIONS AT ALL FINAL CONNECTIONS TO EQUIPMENT, TRAPS AND VALVES TO FACILITATE DISMANTLING. ARRANGE PIPING AND PIPING CONNECTIONS SO THAT EQUIPMENT BEINGS SERVED MAY BE SERVICED OR TOTALLY REMOVED WITHOUT DISTURBING PIPING BEYOND FINAL CONNECTIONS AND ASSOCIATED SHUT-OFF VALVES.

I. THREADED JOINTS SHALL BE FULL AND CLEAN OUTF. JOINTS SHALL BE MADE UP TIGHT WITH JOINT COMPOUND OR JOINT TAP. WHEN MANUFACTURED AND APPROVED FOR USE WITH THE CONTENTS TO FLOW WITHIN THE PIPE AND EXPOSED THREADS OF FERROUS PIPE SHALL BE PAINTED WITH ACID-RESISTANT PAINT AFTER PIPING HAS BEEN TESTED AND PROVED TIGHT, NO CAULKING, LAMPWORK OR OTHER MATERIAL SHALL BE USED FOR CORRECTION OF DEFECTIVE JOINTS.

J. WATER PIPING SHALL BE PITCHED TO DRAIN AT LOW POINTS. STEEL, TO COPPER CONNECTIONS SHALL BE MADE WITH DIELECTRIC UNIONS.

K. DRAIN PIPING FOR COIL DRAIN PANS SHALL EXTEND FULL SIZE OF OUTLET CONNECTION, OR MINIMUM OF 3/4". USE PLUGS ON ALL JOINTS WITH BRANCH CONNECTIONS. PROVIDE EXCESSIVE TRAP OR DRAIN PAN OUTLETS ON AIR SYSTEMS TO PREVENT BLOWING THROUGH TRAP.

L. BRANCH CONNECTIONS SHALL BE EXTENDED FULL SIZE OR MINIMUM SIZE OF 3/4" DIAMETER THROUGHOUT AND SHALL BE INSTALLED WITH ELBOWS EXCEPT THAT SANITARY TEES OR SHORT SWEEP ELBOWS MAY BE USED IN VERTICAL, STACKS AND CROSS CONNECTIONS. PIPING SHALL BE GRADED TO A UNIFORM FALL OF 1/4" PER FOOT WHERE POSSIBLE. IN NO CASE SHALL PIPING BE PITCHED LESS THAN 1/8" PER FOOT. CLEANOUTS SHALL BE INSTALLED WHERE SHOWN ON DRAWINGS, AT CHANGES IN DIRECTION OF PIPE, WHERE NECESSARY FOR EASY CLEANING OF PIPING AND AS REQUIRED BY CODES. CLEANOUTS SHALL BE FULL SIZE OF PIPE UP TO 4" IN SIZE.

M. VENT STACKS SHALL BE EXTENDED FULL SIZE OR MINIMUM SIZE OF 3/4" DIAMETER THROUGHOUT AND SHALL BE INSTALLED WITH SLEEVES AND WITH FLASHING/CONTRASHING ASSEMBLY AS HEREIN PROVIDED FOR A WATERTIGHT INSTALLATION.

N. ADDITIONAL DROPS, RISERS, SWINGS, ETC. SHALL BE SPECIFIED WHERE NECESSARY. PARALLEL LINES SHALL BE STRAIGHT, TRULY PARALLEL, AND REGULARLY SPACED. PIPING SHALL BE CONCEALED IN MECHANICAL, PIPE SHAFTS, WALL VOIDS, CEILING VOIDS, PARTITIONS, ETC., IN FINISHED PORTIONS OF BUILDING. PIPING SHALL BE EXPOSED IN SPACIAL EQUIPMENT ROOMS AND OTHER UNFINISHED AREAS.

O. SLEEVES SHALL BE EXTENDED AND CONNECTED TO ALL FIXTURES, APPLIANCES AND FITTINGS REQUIRING SERVICE. PIPING SHALL BE SIZED AS REQUIRED BY NUMBER AND TYPE OF FIXTURE SUPPLIED.

P. FURNISH AND INSTALL SHUTOFF VALVES IN MAIN WATER SUPPLIES AT EACH FIXTURE GROUP.

20. INSPECTION & CLEANING

A. THE INSIDE AND OUTSIDE SURFACES OF ALL PIPE, TUBING, VALVES, AND FITTINGS SHALL BE CLEANED OF ALL DIRT, SLAG, LOOSE MILL SCALE, AND OTHER FOREIGN MATERIAL IMMEDIATELY AFTER REMOVAL FROM STORAGE AND BEFORE ERECTION. AFTER COMPLETION OF ALL PIPING SYSTEMS, ALL LINES SHALL BE THOROUGHLY FLUSHED OR BLOWN OUT BEFORE BEING PLACED IN SERVICE. THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO STARTING ANY POST ERECTING CLEANING OPERATION IN SUFFICIENT TIME TO ALLOW WITNESSING THE OPERATION. PRIOR TO BLOWING OR FLUSHING ERRECTED PIPING SYSTEMS, THE CONTRACTOR SHALL DISCONNECT ALL INSTRUMENTATION AND EQUIPMENT, FULLY OPEN ALL VALVES, AND ENSURE THAT ALL STRAINER SCREENS ARE IN PLACE.

B. THE PRESSURE IN THE SYSTEM SHALL BE LOW ENOUGH TO ALLOW THE PIPE AND CONTENTS TO BE CLEANED UNTIL DISCHARGE FROM THE SYSTEM IS CLEAN. A WATER SAMPLE FROM EACH SYSTEM SHALL BE ANALYZED FOR CLEANLINESS AFTER SYSTEM IS FLUSHED WITH CLEAN WATER. IF THE WATER ANALYSIS INDICATES THAT THE SYSTEM IS NOT CLEAN, THE SYSTEM SHALL BE FLUSHED WITH A PRECLEANING CHEMICAL DESIGNED TO REMOVE OIL, PIPE COKE, LOOSE MILL SCALE, AND OTHER EXTRANEOUS MATERIALS. THE CONTRACTOR SHALL SUBMIT THE PROPOSED PRECLEANING CHEMICALS FOR APPROVAL. THIS CLEANING SHALL BE FOLLOWED BY WATER FLUSHING AS DESCRIBED. MINIMUM VELOCITIES OF 5 FEET/SECOND SHALL BE MAINTAINED AT ALL POINTS. FLOW SHALL BE IN SAME DIRECTION AS WHEN THE SYSTEM IS IN NORMAL OPERATION. DISCHARGE SHALL BE LOW ENOUGH TO AVOID OVERHEADS, AND AS OTHERWISE REQUIRED TO FLUSH THE ENTIRE SYSTEM. AFTER FLUSHING, ANY RESIDUAL WATER SHALL BE DRAINED AND/OR BLOWN OUT PRIOR TO TESTING.

21. TESTING

A. ALL HYDRAULIC TESTING SHALL CONFORM TO ANSI B31.1, B31.3, B31.8 AND B31.9. THE CONTRACTOR SHALL APPLY THE SPECIFIED TEST PRESSURE FOR A MINIMUM TIME AT LEAST TO THE APPLICABLE SECTION OF THE A.S.M.E. REQUIREMENTS.

B. PERFORM TESTS ONLY AFTER THE PIPE AND CONTENTS HAVE BEEN ESTABLISHED AT AMBIENT TEMPERATURE AND THE SOURCE OF TEST PRESSURE IS SHUT OFF. PIPING TESTS SHALL APPLY TO PIPING ONLY, WITH ALL EQUIPMENT, AND INSTRUMENTS BLOCKED OFF OR DISCONNECTED. NO COMPONENT OR PIPING SHALL BE SUBJECTED TO PRESSURES, WHICH EXCEED THEIR RESPECTIVE PRESSURE RATINGS. PROVIDE TEMPORARY RESTRAINTS ON EXPANSION JOINTS AND FLEXIBLE CONNECTIONS DURING PRESSURE TESTING.

C. HYDROSTATIC TESTS SHALL APPLY TO PIPING AS FOLLOWS:

1. DOMESTIC WATER, 120 PSIG FOR TWO (2) HOURS.
2. WASTE, 10 FT. W.C. FOR TWO (2) HOURS.
3. THE PRESSURE SHALL BE GRADUALLY RAISED TO THE VALUE SPECIFIED AND THE SOURCE THEN BLOCKED OFF. LEAKAGE, OR LOSS OF PRESSURE IN THE TEST DURATION PERIOD, SHALL NOT BE ACCEPTABLE.

D. AUDIBLE OR VISIBLE LEAKS DETECTED DURING TESTING SHALL BE CAUSE TO DISAPPROVE THE TEST EVEN THOUGH THE MAXIMUM ALLOWABLE PRESSURE DROPS HAS NOT BEEN EXCEEDED. THE CONTRACTOR SHALL REPAIR ALL LEAKS DURING THE TESTING. IF THE CONTRACTOR SHALL REPAIR ALL LEAKS AND SHALL REPEAT THE COMPLETE TESTING PROCEDURE, AS MANY TIMES AS NECESSARY TO ACHIEVE AN ACCEPTABLE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

E. UPON SUCCESSFUL COMPLETION AND APPROVAL OF THE TESTS, THE CONTRACTOR SHALL RELIEVE THE PIPING OF PRESSURE, DRAIN THE SYSTEM, AND PUT THE SYSTEM INTO NORMAL OPERATION AFTER FURTHER COMPLYING WITH ALL CLEANING REQUIREMENTS AS SPECIFIED HEREIN.

22. DISINFECTION

A. CLEAN AND DISINFECT WATER DISTRIBUTION PIPING.

B. PURGE ALL WATER DISTRIBUTION PIPING SYSTEMS AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED, PRIOR TO USE.

C. USE THE PURGING AND DISINFECTING PROCEDURE PRESCRIBED BY THE AUTHORITY HAVING JURISDICTION OR, IN CASE A METHOD IS NOT PRESCRIBED BY THAT AUTHORITY, USE THE PROCEDURE DESCRIBED IN DNWA G61.

D. PREPARE REPORTS FOR ALL PURGING AND DISINFECTING ACTIVITIES.

1.2	DISINFECTION
A.	CLEAN AND DISINFECT WATER DISTRIBUTION PIPING.
B.	PURGE ALL NEW WATER DISTRIBUTION PIPING SYSTEMS AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED, PRIOR TO USE.
C.	USE THE PURGING AND DISINFECTING PROCEDURE PRESCRIBED BY THE AUTHORITY HAVING JURISDICTION OR, IN CASE A METHOD IS NOT PRESCRIBED BY THAT AUTHORITY, USE THE PROCEDURE DESCRIBED IN AWWA C651.
D.	PREPARE REPORTS FOR ALL PURGING AND DISINFECTING ACTIVITIES.
1.13	PLUMBING FIXTURES
A.	ALL PLUMBING FIXTURES, EQUIPMENT AND RELATED ACCESSORIES SHALL BE FURNISHED AND INSTALLED IN A NEAT, FINISHED AND UNIFORM MANNER. ALL WORK AND MATERIAL REQUIRED TO ROUGH-IN, CONNECT UP AND INSTALL SUPPLY, DRAIN, WASTE, SOL & VENT PIPING SHALL BE PROVIDED AS REQUIRED FOR PROPER OPERATION. THIS SHALL INCLUDE PLUMBING FIXTURES, EQUIPMENT AND ACCESSORIES AND INCLUDES ITEMS FURNISHED UNDER OTHER SECTIONS OR FURNISHED BY THE OWNER. FIXTURES, EQUIPMENT AND ACCESSORIES ARE SPECIFIED BY MANUFACTURER'S NUMBERS AS TO THE TYPE AND QUALITY REQUIRED.
B.	ALL STAINLESS STEEL FIXTURES (I.E., ELECTRIC WATER COOLERS, SINKS, ETC.) SHALL BE 18 GAUGE, TYPE 302 (18-8) NICKEL BEARING STAINLESS STEEL WITH BRUSHED SATIN FINISH AND SOUND DEADENING UNDERCOST.
C.	PLUMBING TRIM UTILIZED SHALL BE PROVIDED WITH RENEWABLE SEATS AND REPLACEABLE INTERNAL WORKING COMPONENTS.
D.	UNLESS OTHERWISE SPECIFIED, EACH LAVATORY SHALL BE PROVIDED WITH: MCGUIRE ST7X ANGLE STOPS AND M65 3/8" X 1/2" FLEXIBLE RISERS; MCGUIRE 8902 ADJUSTABLE, SEMI CAST BRASS P-TAP (1 1/2" INLET, 1 1/2" OUTLET) WITH GROUND SWIVEL JOINT, CLEANOUT PLUG, SLIP INLET AND 1/2 GAUGE 1 1/2" TRAP ARM. PROVIDE MCGUIRE 158WC LOOSE KEY STRAIGHT STOP SUPPLIES FOR BARRIER FREE LAVATORIES.
E.	UNLESS OTHERWISE SPECIFIED, EACH SINK SHALL BE PROVIDED WITH: MCGUIRE ST7X ANGLE STOPS AND M65 3/8" X 20" FLEXIBLE RISERS; MCGUIRE 151 BASKET STRAINER, 1 1/4" X 1 1/2" GAUGE TAILPIECE WITH BRASS LOCKING AND COUPLING NUTS; MCGUIRE 8902 ADJUSTABLE, SEMI CAST BRASS P-TAP (1 1/2" WITH GROUND SWIVEL JOINT, CLEANOUT PLUG, SLIP INLET AND 1/2 GAUGE 1 1/2" TRAP ARM. PROVIDE ADDITIONAL STRAINERS, TAILPIECES AND CONTINUOUS WASTE PIECES FOR MULTIPLE COMPARTMENT SINKS AS REQUIRED. PROVIDE MCGUIRE 158WC LOOSE KEY STRAIGHT STOP SUPPLIES FOR BARRIER FREE LAVATORIES.
F.	ALL FIXTURES SHALL BE SUBSTANTIALLY SUPPORTED IN AN APPROVED MANNER. FURNISH AND INSTALL ADJUSTABLE CARRIERS WITH LEGS, FLOOR BASES, BARRING PLATES, SUPPORT ARMS OR RODS AS REQUIRED FOR ALL WALL HUNG FIXTURES. ANCHOR CARRIERS TO FLOOR AND BRACE TO WALL. CONSTRUCTION OF EACH SUPPORT SHALL BE REPORTED. CARRIERS SHALL BE REQUIRED TO FIT FIXTURES FURNISHED. VERIFY AVAILABLE SPACE FOR CARRIERS AND PROVIDE APPROPRIATE CARRIERS TO FIT SPACE AND BUILDING CONSTRUCTION. INSTALL ALL SUPPORTS BEFORE WALLS ARE FINISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A PERIOD OF ONE YEAR FOLLOWING FINAL ACCEPTANCE OF THE BUILDING, FOR THE LOOSENING OF ANY PLUMBING FIXTURE AND ANY SUBSEQUENT DAMAGE TO THE BUILDING CAUSED BY THE FIXTURE OR AS A RESULT OF LEAKS IN PIPING. THE CONTRACTOR SHALL PROMPTLY MAKE REPAIRS TO THE BUILDING, AND REPLACE OR REPAIR FIXTURE CARRIERS AS DEEMED NECESSARY BY THE ARCHITECT/ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT.
G.	ALL FIXTURES SHALL BE SET TRUE AND LEVEL. INSTALL ALL FIXTURES IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND AT RECOMMENDED HEIGHTS UNLESS OTHERWISE INDICATED.
H.	FIXTURES THAT ARE WALL HUNG OR BUTT A WALL SHALL HAVE ADJACENT EDGES AND SURFACES FACTORY GROUND TRUE AND SQUARE.
I.	ALL SPACES BETWEEN FIXTURES AND FINISHED SURFACES SHALL BE CAULKED AND POINTED SQUARE WITH AN APPROVED SILICONE SEALANT RESULTING IN A NEAT AND SMOOTH APPEARANCE. SEALANT COLOR SHALL BE AS APPROVED BY THE ARCHITECT.
J.	ALL EXPOSED FIXTURE TRIM SHALL BE POLISHED CHROME PLATED BRASS. EXPOSED FIXTURE TRIM INCLUDING WASTE AND VENT PIPING IN THE KITCHEN AREA SHALL BE NO-HUB CAST IRON WITH STAINLESS STEEL PROTECTIVE JACKETING WHERE STANDARD POLISHED CHROME PLATED BRASS MATERIALS ARE NOT AVAILABLE.
K.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND CLEANLINESS OF ALL FIXTURES, EQUIPMENT AND ACCESSORIES.
L.	ALL PRECAST RECEPTORS AND BASINS SHALL BE OF STANDARD COLOR AS SELECTED BY THE ARCHITECT, AND SET LEVEL IN A BED OF CEMENT MORTAR PER MANUFACTURER'S REQUIREMENTS.
1.14	COMMERCIAL GAS-FIRED, STORAGE, DOMESTIC-WATER HEATERS
A.	COMMERCIAL GAS-FIRED, HIGH-EFFICIENCY, STORAGE, DOMESTIC-WATER HEATERS:
1.	SOURCE LIMITATIONS: OBTAIN DOMESTIC-WATER HEATERS FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.
2.	STANDARD: ANSI Z21.10.3CSA 4.3.
3.	DESCRIPTION: MANUFACTURER'S PROPRIETARY DESIGN TO PROVIDE AT LEAST 90 PERCENT COMBUSTION EFFICIENCY AT OPTIMUM OPERATING CONDITIONS.
4.	STORAGE-TANK CONSTRUCTION: ASME-CODE STEEL WITH 150-PSI (1035-KPA) MINIMUM WORKING-PRESSURE RATING.
a.	TAPPINGS: FACTORY FABRICATED OF MATERIALS COMPATIBLE WITH TANK. ATTACH TAPPINGS TO TANK BEFORE TESTING.
b.	INTERIOR FINISH: COMPLY WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS, INCLUDING EXTENDING FINISH INTO AND THROUGH TANK FITTINGS AND OUTLETS.
5.	FACTORY-INSTALLED STORAGE-TANK APPURTENANCES:
a.	ANODE ROD: REPLACEABLE MAGNESIUM.
b.	DIP TUBE: REQUIRED UNLESS COLD-WATER INLET IS NEAR BOTTOM OF TANK.
c.	DRAIN VALVE: CORROSION-RESISTANT METAL WITH HOSE-END CONNECTION.
d.	INSULATION: R17.5 SURROUND ENTIRE STORAGE TANK EXCEPT CONNECTIONS AND CONTROLS.
e.	JACKET: STEEL WITH ENAMELED FINISH.
f.	BURNER OR HEAT EXCHANGER: COMPLY WITH UL 795 OR APPROVED TESTING AGENCY REQUIREMENTS FOR GAS-FIRED, HIGH-EFFICIENCY, DOMESTIC-WATER HEATERS AND NATURAL-GAS FUEL.
g.	TEMPERATURE CONTROL: TEMPERATURE CONTROLS SHALL BE PROVIDED THAT ALLOW FOR STORAGE TEMPERATURE ADJUSTMENT FROM 120°F (49°C) OR LOWER TO A MAXIMUM TEMPERATURE COMPATIBLE WITH THE INTENDED USE.
h.	SAFETY CONTROLS: AUTOMATIC, HIGH-TEMPERATURE LIMIT AND LOW-WATER CUTOFF DEVICES OR SYSTEMS.
i.	COMBINATION TEMPERATURE-AND-PRESSURE RELIEF VALVES: ANSI Z21.22CSA 4.4. INCLUDE ONE OR MORE RELIEF VALVES WITH TOTAL RELIEVING CAPACITY AT LEAST AS GREAT AS HEAT INPUT, AND INCLUDE PRESSURE SETTING LESS THAN WORKING-PRESSURE RATING OF DOMESTIC-WATER HEATER. SELECT ONE RELIEF VALVE WITH SENSING ELEMENT THAT EXTENDS INTO STORAGE TANK.
1.15	DOMESTIC-WATER HEATER ACCESSORIES
A.	DOMESTIC-WATER EXPANSION TANKS:
1.	SOURCE LIMITATIONS: OBTAIN DOMESTIC-WATER HEATERS FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.
2.	DESCRIPTION: STEEL, PRESSURE-RATED TANK CONSTRUCTED WITH WELDED JOINTS AND FACTORY-INSTALLED, BUTYL-RUBBER DIAPHRAGM. INCLUDE AIR PRECHARGE TO MINIMUM SYSTEM-OPERATING PRESSURE AT TANK.
3.	CONSTRUCTION:
a.	TAPPINGS: FACTORY-FABRICATED STEEL, WELDED TO TANK BEFORE TESTING AND LABELING. INCLUDE ASME B1.20.1 PIPE THREAD.
b.	INTERIOR FINISH: COMPLY WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS, INCLUDING EXTENDING FINISH INTO AND THROUGH TANK FITTINGS AND OUTLETS.
c.	AIR-CHARGING VALVE: FACTORY INSTALLED.
B.	DRAIN PANS: CORROSION-RESISTANT METAL WITH RAISED EDGE, INCLUDE DIMENSIONS NOT LESS THAN BASE OF DOMESTIC-WATER HEATER AND INCLUDE DRAIN OUTLET NOT LESS THAN NPS 3/4 (20.0MM) WITH ASME B1.20.1 PIPE THREADS.
C.	HEAT TRAPS: INCLUDE FITTING OR FIELD-FABRICATED PIPING ARRANGEMENT COMPLYING WITH ASHRAE/IESNA 90.1 7.4.6 ON VERTICAL PIPE RISERS SERVING STORAGE WATER HEATERS AND STORAGE TANKS NOT HAVING INTERNAL HEAT TRAPS AND SERVING A NONRECIRCULATING SYSTEM.
D.	GAS SHUTOFF VALVES: ANSI Z21.15CSA 3.1, MANUALLY OPERATED. FURNISH FOR INSTALLATION IN PIPING.
G.	GAS PRESSURE REGULATORS: ANSI Z21.18CSA 6.3, APPLIANCE TYPE.
H.	AUTOMATIC GAS VALVES: ANSI Z21.21CSA 6.5, APPLIANCE, ELECTRICALLY OPERATED, ON-OFF AUTOMATIC VALVE.
I.	PRESSURE RELIEF VALVES: INCLUDE PRESSURE SETTING LESS THAN WORKING-PRESSURE RATING OF DOMESTIC-WATER HEATER.
1.	GAS-FIRED, DOMESTIC-WATER HEATERS: ANSI Z21.22CSA 4.4.
J.	VACUUM RELIEF VALVES: ANSI Z21.22CSA 4.4.

WATER BASED FIRE SUPPRESSION	
1.1	<p>DESCRIPTION OF WORK</p> <p>A. PERFORMANCE SPECIFICATION FOR AUTOMATIC SPRINKLER SYSTEMS FOR BUILDINGS.</p> <p>B. WORK INCLUDED:</p> <ol style="list-style-type: none"> FURNISH ALL LABOR, SERVICES, MATERIALS AND EQUIPMENT AND PERFORM ALL WORK AS NECESSARY AND REQUIRED TO CONSTRUCT FIRE PROTECTION WORK COMPLETE AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. THE WORK INCLUDES: <ol style="list-style-type: none"> SPRINKLERS AND ACCESSORIES. WET PIPE SPRINKLER SYSTEM TO SERVE THE SPACE. <p>C. SCOPE OF THE WORK: THE WORK SHALL INCLUDE, BUT IT NOT NECESSARILY LIMITED TO THE DESIGN AND INSTALLATION OF SPRINKLER SYSTEMS AND ALL APPURTENANCES COMMON TO THE SYSTEMS, GENERALLY CONSISTING OF PIPE, FITTINGS, VALVES, HANGERS, COVERING, PAINTING, CLEANING, TESTING AND SUCH OTHER WORK AS IS NECESSARY AND SPECIFIED OR SHOWN ON THE DRAWINGS. THIS CONTRACTOR SHALL SCHEDULE DELIVERY OF EQUIPMENT AND PIPING AND COMPLETE HIS WORK SO THAT THERE IS NO INTERRUPTION IN THE WORK SCHEDULE.</p> <p>D. THE FIRE SPRINKLER CONTRACTOR SHALL COMPLETELY DESIGN THE SPRINKLER SYSTEM, IN ACCORDANCE WITH ALL CODES, REGULATIONS AND THE CRITERIA NOTED HEREIN. THIS CONTRACTOR SHALL PREPARE DESIGN DRAWINGS, CALCULATIONS, AND CATALOGS OUT SHEETS ON ALL COMPONENTS AND SUBMIT AS SHOP DRAWINGS FOR APPROVAL. PIPE SIZES SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY AND SHALL BE MODIFIED PER HYDRAULIC CALCULATION. ALL DRAWINGS AND CALCULATIONS SHALL BE SEALED AND SIGNED BY A QUALIFIED LICENSED PROFESSIONAL ENGINEER, HIRED BY THE FIRE PROTECTION CONTRACTOR.</p>
1.2	<p>CODES AND ORDINANCES</p> <p>A. THE ENTIRE FIRE PROTECTION INSTALLATION SHALL COMPLY FULLY WITH REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL LAWS, CODES AND ORDINANCES.</p> <p>B. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED AND INSTALLED TO COMPLY WITH THE APPLICABLE EDITION OF THE FOLLOWING STANDARDS AND/OR CODES, REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL INFORMATION.</p> <ol style="list-style-type: none"> IFC INTERNATIONAL BUILDING CODE IFC INTERNATIONAL FIRE CODE NFPA 13 SPRINKLER SYSTEMS THE SPRINKLER SYSTEMS SHALL BE DESIGNED AND HYDRAULICALLY CALCULATED SO AS TO PROVIDE THE DENSITY PER ABOVE CODES AND STANDARDS. CALCULATIONS SHALL BE SUBMITTED WITH WORKING DRAWINGS FOR APPROVAL. <p>C. FLOW TEST: THIS CONTRACTOR IS TO VERIFY AVAILABILITY OF WATER SUPPLY BY PERFORMING AN ACTUAL FLOW TEST TO BE USED IN THEIR HYDRAULIC CALCULATIONS.</p> <p>D. THE HYDRAULIC CALCULATIONS SHALL BE BASED ON MAXIMUM 90% OF THE WATER SUPPLY AVAILABLE.</p> <p>E. THE WORK SHALL ALSO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), UL AND THE OWNERS INSURANCE COMPANY.</p> <p>F. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND LICENSES.</p>
1.3	<p>APPROVALS</p> <p>A. BEFORE PROCEEDING WITH ANY FIRE PROTECTION WORK, THE CONTRACTOR SHALL PREPARE DRAWINGS, COMPLETELY ILLUSTRATING THE FIRE PROTECTION SYSTEM TO BE INSTALLED UNDER THIS CONTRACT. THIS CONTRACTOR SHALL SUBMIT THE DRAWINGS TO THE STATE AND LOCAL AUTHORITIES HAVING JURISDICTION, AND THE OWNERS INSURANCE COMPANY, FOR THEIR REVIEW, COMMENTS AND APPROVAL. THE APPROVED DRAWINGS SHALL BE STAMPED WITH THE APPROVAL STAMP AND UL/CERTIFIED BY AN AUTHORITY OFFICIAL INSPECTION BUREAU. FOUR COPIES OF THE CERTIFIED DRAWINGS SHALL BE FORWARDED TO THE ARCHITECT FOR APPROVAL.</p>
1.4	<p>SUBMITTALS</p> <p>A. PRODUCT DATA, INCLUDE ALL REQUIRED COMPONENTS OF THE WORKING SPRINKLER SYSTEM.</p> <p>B. SHOP DRAWINGS, SUBMIT DRAWINGS TO BE PREPARED IN ACCORDANCE WITH SECTION 1 IDENTIFIED AS "WORKING PLANS," INCLUDING HYDRAULIC CALCULATIONS, AND WHICH HAVE BEEN APPROVED BY THE AUTHORITY HAVING JURISDICTION.</p> <p>C. SHOP DRAWINGS SHALL BE COORDINATED WITH EQUIPMENT SUPPLIED BY OTHER CONTRACTORS AND THE OWNER.</p> <p>D. MAINTENANCE DATA OF ALL COMPONENTS REQUIRED FOR A WORKING SPRINKLER SYSTEM.</p> <p>E. TEST REPORTS AND CERTIFICATES: INCLUDE "CONTRACTORS MATERIAL & TEST CERTIFICATE FOR ABOVEGROUND PIPING" AS DESCRIBED IN NFPA 13.</p> <p>F. FURNISH ONE SET OF PRINTED RECORD DRAWINGS AND ONE SET OF AUTO-CAD DISKETTES. ONE SET OF PRINTS SHALL BE KEPT ON THE JOB AND MARKED LEGIBLY WITH COLORED PENCIL, TO SHOW ALL CHANGES IN CONSTRUCTION FROM THAT SHOWN ON THE CONTRACT DOCUMENTS. THE RECORD DRAWINGS SHALL INCORPORATE ALL THE CHANGES DURING CONSTRUCTION TO REFLECT ACTUAL INSTALLATION. RECORD DRAWINGS SHALL BE DELIVERED TO ARCHITECT BEFORE FINAL ACCEPTANCE OF BUILDING BY THE OWNER.</p>
1.5	<p>QUALITY ASSURANCE</p> <p>A. INSTALLER QUALIFICATIONS: THE CONTRACTOR SHALL BE A LICENSED FIRE PROTECTION SYSTEMS CONTRACTOR, AS REQUIRED BY THE LOCAL OR STATE JURISDICTION, REGULARLY ENGAGED IN THE INSTALLATION OF AUTOMATIC FIRE SPRINKLER SYSTEMS AND FIRE PROTECTION EQUIPMENT.</p> <p>B. UL AND FM COMPLIANCE: FIRE PROTECTION SYSTEM MATERIALS, VALVES, AND COMPONENTS SHALL BE UNDERWRITERS LABORATORIES LISTED AND LABELED, OR FACTORY MUTUAL APPROVED FOR THE APPLICATION ANTICIPATED.</p>
1.6	<p>SEQUENCING AND SCHEDULING</p> <p>A. SCHEDULE ROUGH-IN INSTALLATIONS WITH INSTALLATIONS OF OTHER BUILDING COMPONENTS.</p> <p>B. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR COORDINATING OPENING LOCATIONS WITH THE G.C. AND CUTTING, CORE DRILLING OR SLEEVING THE OPENINGS FOR PIPE, ETC., REQUIRED FOR THE INSTALLATION OF THE BUILDING FIRE PROTECTION SYSTEMS. ALL PENETRATIONS SHALL BE MADE IN A MANNER APPROVED BY THE STRUCTURAL ENGINEER. PIPING PENETRATIONS OF CONCRETE SLABS MAY BE CORE DRILLED, IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.</p>
1.7	<p>GUARANTEE</p> <p>A. THE CONTRACTOR GUARANTEES ALL FIRE PROTECTION WORK AGAINST DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIAL AND THAT ALL PIPING IS FREE FROM FOREIGN MATERIAL, OBSTRUCTIONS, HOLES, OR BREAKS OF ANY NATURE.</p> <p>B. THE CONTRACTOR GUARANTEES THE PROPER CIRCULATION AND/OR DRAINAGE OF FLUID IN EACH PIPING SYSTEM.</p> <p>C. UPON WRITTEN NOTICE FROM THE ARCHITECT OR OWNER, THE CONTRACTOR SHALL PROMPTLY REMEDY, WITHOUT COST TO THE OWNER, ANY DEFECTS OCCURRING WITHIN A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.</p>
1.8	<p>PIPE AND TUBING MATERIALS</p> <p>A. PIPING ABOVE GROUND SHALL BE SCHEDULE 40 BLACK STEEL, CONFORMING TO ASTM DESIGNATION A-53.</p> <p>B. PIPING BELOW GROUND SHALL BE DUCTILE IRON ANNEAL C151, COPPER TYPE "K" OR PVC ANNEAL C900. CLASS 150.</p>
1.9	<p>FITTINGS</p> <p>A. MALLEABLE IRON THREADED FITTINGS: ANSI B16.3, CLASS 150, STANDARD PATTERN, FOR THREADED JOINTS OR CAST IRON THREADED FITTINGS CLASS 125. THREADS SHALL CONFORM TO ANSI B1.20.1.</p> <p>B. GROOVED MECHANICAL FITTINGS: ASTM A 538, GRADE 65-45 12 DUCTILE IRON, ASTM A 47 GRADE 32510 MALLEABLE IRON, OR ASTM A53, TYPE "F" OR TYPES "E" OR S GRADE B FABRICATION STEEL FITTINGS WITH GROOVES OR SHOULDERS DESIGNED TO ACCEPT GROOVED END COUPLINGS.</p> <p>C. GROOVED MECHANICAL COUPLINGS: CONSIST OF DUCTILE OR MALLEABLE IRON HOUSING, A SYNTHETIC RUBBER GASKET OR A CENTRAL CAST-IRON PIPING-RESPONSIVE DESIGN WITH NUTS, BOLTS, LOCKING PIN, LOCKING TIE, OR LOGS TO SECURE ROLLED-GROOVED PIPE AND FITTINGS.</p>
1.10	<p>AUTOMATIC SPRINKLERS</p> <p>A. ALL SPRINKLERS SHALL BE OF THE AUTOMATIC TYPE, COMPLY WITH THE STANDARDS OF NFPA, BE UL LISTED, FM APPROVED AND MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.</p> <p>B. SPRINKLERS SHALL BE OF THE UPRIGHT, PENDENT OR SIDEWALL TYPE AS REQUIRED BY CONSTRUCTION IN THE AREA ON WHICH THEY ARE INSTALLED. SPRINKLERS INSTALLED IN AREAS WHERE A CEILING IS PRESENT SHALL BE SEMI-RECESSED TYPE.</p> <p>C. SPRINKLER FINISH SHALL BE PLAIN BRASS OR BRONZE FOR UNFINISHED AREAS AND POLISHED CHROME PLATED IN FINISHED SPACES.</p> <p>D. TEMPERATURE RATINGS AND WORKING PRESSURES FOR SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA.</p> <p>E. SPRINKLER QUANTITY, TYPE AND LOCATION SHALL BE AS REQUIRED BY HYDRAULIC CALCULATIONS.</p> <p>F. ACCESSORIES</p> <ol style="list-style-type: none"> ESCUTCHEONS, COVER PLATES AND APPLICABLE TRIM SHALL BE PROVIDED FOR ALL THROUGH-WALL AND THROUGH-CEILING TYPE SPRINKLER INSTALLATIONS IN FINISHED SPACES. PROVIDE SPRINKLER GUARDS FOR ALL SPRINKLERS SUBJECT TO DAMAGE IN ACCORDANCE WITH NFPA.
1.11	<p>VALVES</p> <p>A. ALL VALVES SHALL BE APPROVED FOR FIRE PROTECTION USE. SHALL BE UL LISTED AND SHALL BE RATED FOR NOT LESS THAN 175 PSI WORKING PRESSURE.</p> <ol style="list-style-type: none"> GATE VALVES 2" AND SMALLER SHALL HAVE BRONZE BODIES, BRONZE TRIM, WEDGE DISC, RISING STEM, OS&Y PATTERN AND SCREWED ENDS. VALVES SHALL BE CAPABLE OF BEING REPAKED UNDER PRESSURE, WITH VALVE WEDGE OPEN. BALL VALVES MAY BE SUBSTITUTED IN THE PLACE OF GATE VALVES FOR 2" AND SMALLER. GATES VALVES 2-1/2" AND LARGER SHALL HAVE IRON BODIES, BRONZE MOUNTED, OS&Y PATTERN AND FLANGED BONNET, WITH BODY AND BONNET CONFORMING TO ASTM A 126 CLASS B; REPLACEABLE BRONZE WEDGE FAING RINGS, FLANGED ENDS; AND A PACKING ASSEMBLY CONSISTING OF A CAST IRON GLAND FLANGE, BRASS GLAND, PACKING, BONNET, AND BRONZE BONNET BUSHING. VALVES SHALL BE CAPABLE OF BEING REPAKED UNDER PRESSURE, WITH VALVE WEDGE OPEN. BUTTERFLY VALVES MAY BE SUBSTITUTED IN THE PLACE OF GATE VALVES FOR 2-1/2" AND LARGER. CHECK VALVES SHALL COMPLY WITH MSS SP-71, CLASS 175 CAST IRON BODY BOLTED CAP CONFORMING TO ASTM A 126, CLASS B; HORIZONTAL SWING, WITH A BRONZE DISC OR CAST IRON DISC WITH BRONZE DISC RING, AND FLANGED ENDS. VALVE SHALL BE CAPABLE OF BEING RETIFFED WHILE THE VALVE REMAINS IN THE LINE. ALARM CHECK VALVES SHALL BE 175PSIG WORKING PRESSURE, DESIGNED FOR HORIZONTAL OR VERTICAL INSTALLATIONS, AND HAVE CAST IRON, FLANGED INLET AND OUTLET, BOLT GROOVED SEAT WITH "O" RING SEALS. SINGLE WEDGE PIN AND "O" RING DESIGN. DRAM SETS FOR BYPASS, DRIP, ELECTRIC SPRINKLER ALARM SWITCH, PRESSURE GAGES, PRECISION RETARDING CHAMBER, DRIP CUP ASSEMBLY PIPED WITHOUT VALVES SEPARATE FROM MAIN DRAIN LINE, AND FILL LINE ATTACHMENT WITH STRAINER. DRAIN AND TEST VALVES SHALL BE GLOBE OR ANGLE VALVES. MAIN SERVICE VALVE INSIDE OF BUILDING AND ALL SPRINKLER SYSTEM CONTROL VALVES SHALL BE OS&Y GATE VALVES AND SHALL BE ARRANGED AND PROVIDED WITH SUPERVISORY SWITCHES.
1.12	<p>ALARM CHECK VALVE</p>

1.13 PRESSURE GAUGES
A. PROVIDE UL APPROVED TYPE PRESSURE GAUGES. GAUGES SHALL HAVE 3/4" DIAMETER DIALS WITH GRADUATIONS AND MARKINGS AS REQUIRED FOR SYSTEM PRESSURES. EACH GAUGE SHALL BE EQUIPPED WITH SHUT-OFF AND DRAIN COCKS. PROVIDE 1/4" SCREW-PIPE FITTING WITH PLUG ON GAUGE SIDE OF SHUT-OFF COCK FOR INSTALLING INSPECTOR'S GAUGE.

1.14 PIPE HANGERS AND SUPPORTS
A. ALL HORIZONTAL PIPE HANGERS SHALL BE UL APPROVED ADJUSTABLE STEEL RING HANGERS SPACED IN ACCORDANCE WITH NFPA REQUIREMENTS. ALL VERTICAL PIPES SHALL BE SUSPENDED WITH UL APPROVED STEEL RISER CLAMPS.

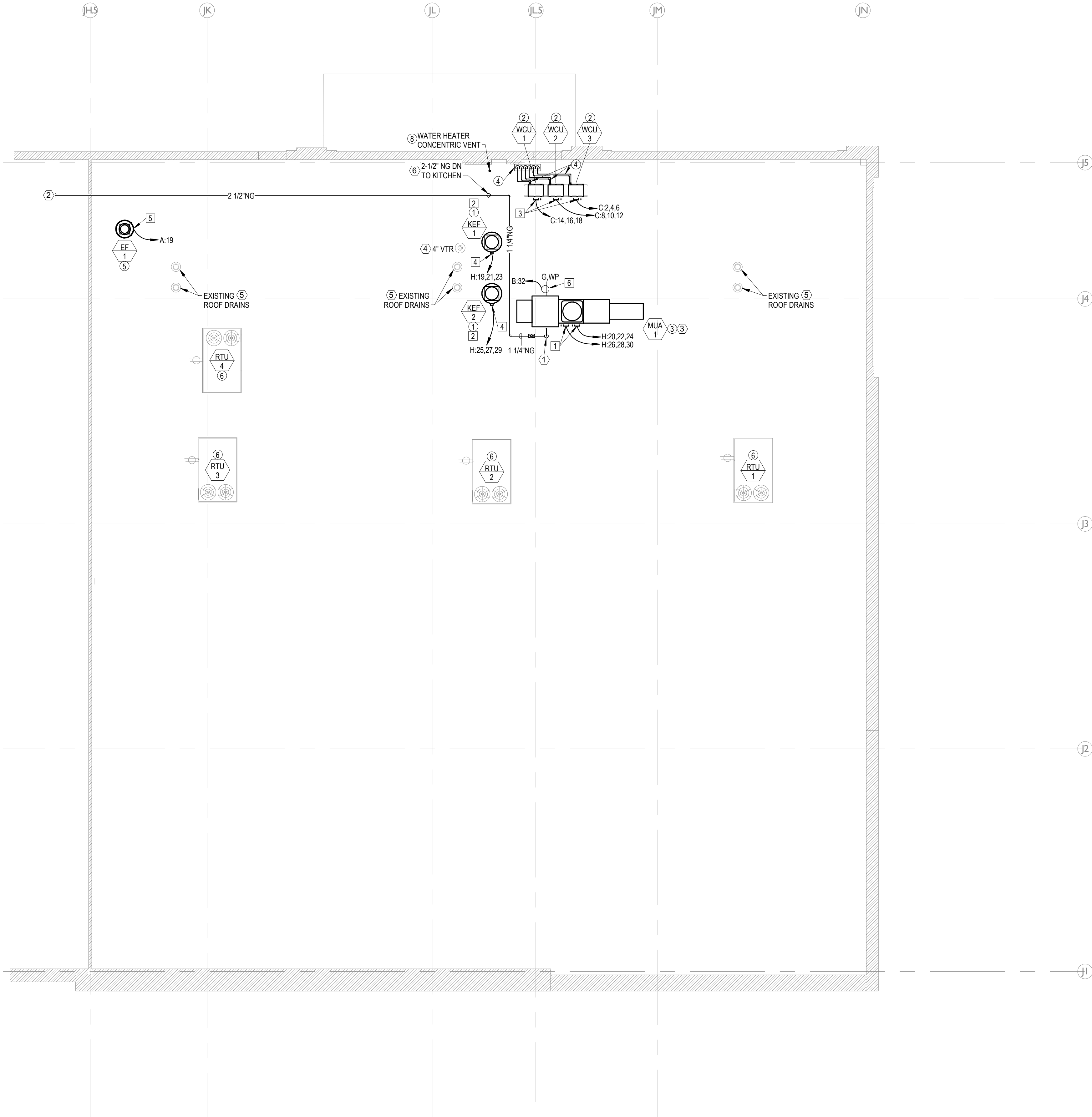
1.15 PIPE SLEEVES
A. CONTRACTOR SHALL, UNLESS OTHERWISE SPECIFIED, FURNISH AND INSTALL SLEEVES FOR ALL PIPING, ETC. HE INSTALLS WHICH PASSES THROUGH FIRE RATED CONSTRUCTION WHICH IS REQUIRED FOR THE LISTED FIRE STOPPING SYSTEM WHICH INCLUDES, WALLS, PARTITIONS, AND FLOORS.
B. SLEEVES FOR PIPING, ETC., IN ALL WALLS AND FLOORS, UNLESS OTHERWISE MODIFIED OR SPECIFIED, SHALL BE OF STANDARD SCHEDULE 40 BLACK STEEL PIPE WITH ENDS CUT SQUARE AND REAMED AND OF SUFFICIENT LENGTH TO FINISH FLUSH WITH FINISHED SURFACES AT BOTH ENDS OF SLEEVES. VERTICAL PIPE SLEEVES THROUGH STRUCTURAL SLABS SHALL BE SPACED NOT LESS THAN THREE DIAMETERS CENTER TO CENTER.
C. SLEEVES SHALL NOT BE INSTALLED THROUGH FOOTINGS, BEAMS OR COLUMNS EXCEPT AS APPROVED BY THE ARCHITECT. WHERE APPROVED, SLEEVES SHALL BE SCHEDULE 40 STEEL PIPE.
D. SLEEVES IN FLOORS ABOVE GRADE SHALL EXTEND 3 INCHES ABOVE FINISHED FLOOR.
E. WHERE WATERPROOFING MEMBRANE IS PENETRATED, INSTALL SLEEVE WITH CLAMPING FLANGE AND CAULK WITH OAKUM AND LEAK WATERTIGHT.

1.16 AUXILIARY DRAINS
A. CONTRACTOR SHALL FURNISH AND INSTALL AUXILIARY DRAIN VALVES AS REQUIRED AND SHALL EXTEND THROUGH WALLS OF BUILDING OR TO FLOOR DRAIN INSIDE BUILDING, ELBOWED DOWN WITH 45 DEGREE DISCHARGE.

1.17 PIPE APPLICATIONS
A. INSTALL SCHEDULE 40 STEEL PIPE WITH THREADED JOINTS AND FITTINGS FOR 2 INCH AND SMALLER, AND EITHER SCHEDULE 10 OR 40 WITH EITHER WELDED OR ROLL-GROOVED ENDS AND GROOVED MECHANICAL COUPLINGS FOR 2 1/2" AND LARGER.

1.18 PIPING TESTS
A. ALL PIPING SHALL BE TESTED, LEAKS REPAIRED AND SYSTEMS RETESTED UNTIL PROVED TIGHT BEFORE BACKFILLING OR CEILING PIPE.
B. FIRE PROTECTION PIPING SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH REQUIREMENTS OF NFPA.

1.19 INSPECTION AND TESTS
A. ALL INSPECTIONS, EXAMINATIONS AND TESTS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION SHALL BE ARRANGED AND PAID FOR BY THE FIRE PROTECTION CONTRACTOR, AS NECESSARY TO OBTAIN COMPLETE AND FINAL ACCEPTANCE OF THE FIRE PROTECTION SYSTEM. THE FIRE PROTECTION CONTRACTOR SHALL DELIVER CERTIFICATES OF ALL SUCH INSPECTIONS AND TEST TO THE ARCHITECT.



1 NEW WORK MEP ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO REVIEW GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- COORDINATE WITH JOIST LOCATIONS BEFORE CREATING NEW PENETRATIONS IN ROOF. PROVIDE STRUCTURAL FRAMING AROUND ALL NEW ROOF PENETRATIONS PER STRUCTURAL.
- SEE PIPE MATERIAL SCHEDULE ON SHEET P600 FOR NATURAL GAS PIPING REQUIREMENTS.
- COORDINATE WITH STRUCTURAL ENGINEER ON INSTALLATION OF NEW EQUIPMENT.
- PROVIDE GAS PIPE SUPPORTS AT A MAXIMUM OF EVERY 8'-0" O.C. SEE DETAIL 9/P500 FOR TYPICAL ROOF GAS PIPE SUPPORT.
- CONTRACTOR SHALL ENSURE ALL INTAKES ON ROOFTOP UNITS AND MAKE-UP AIR UNITS ARE A MINIMUM OF 10'-0" AWAY FROM EXHAUST FANS, PLUMBING VENTS AND GAS WATER HEATER FLUES.

MECHANICAL PLAN NOTES: #

- INSTALL EXHAUST FAN ON ROOF CURB. SEE DETAILS 6/M500 AND 7/M500 FOR KITCHEN HOOD EXHAUST FAN DETAILS. EXHAUST FAN AND CURB FURNISHED BY KITCHEN EQUIPMENT VENDOR AND INSTALLED BY MECHANICAL CONTRACTOR.
- PLACE CONDENSING UNIT ON EQUIPMENT RAILS. INSTALL PER MANUFACTURER'S REQUIREMENTS. SEE DETAIL 2/M500. COORDINATE WITH KITCHEN VENDOR SUPPLIER AND STRUCTURAL ENGINEER. WALK-IN CONDENSING UNIT SUPPLIER BY KITCHEN EQUIPMENT SUPPLIER AND INSTALLED BY MECHANICAL CONTRACTOR.
- INSTALL MAKE-UP AIR UNIT LEVEL ON ROOF CURB. ANCHOR ROOF CURB TO STRUCTURE. COORDINATE WITH STRUCTURAL ENGINEER. REFERENCE DETAIL 6/M500 FOR ROOF CURB AND DUCT ISOLATION DETAILS. MAKE-UP AIR UNIT AND CURB FURNISHED BY KITCHEN EQUIPMENT VENDOR AND INSTALLED BY MECHANICAL CONTRACTOR.
- PROVIDE AND INSTALL REFRIGERANT PIPING SUPPORTS PER DETAIL 10/M500. ROUTE REFRIGERANT PIPING DOWN TO ASSOCIATED EVAPORATOR COIL, FAN COIL UNIT OR ICE MACHINE CONTRACTOR SHALL FIELD DETERMINE BEST ROUTING. SEE DETAIL 5/M500 FOR TYPICAL REFRIGERANT PIPE PENETRATION DETAIL.
- INSTALL EXHAUST FAN ON ROOF CURB. SEE DETAIL 8/M500 FOR EXHAUST FAN DETAILS.
- EXISTING ROOFTOP UNIT TO REMAIN. SEE ROOFTOP UNIT SCHEDULE ON SHEET M600 FOR REBALANCING OF AIRFLOWS.
- NEW GAS WATER HEATER CONCENTRIC VENT TERMINATION. SEE DETAIL 4/M500.

ELECTRICAL PLAN NOTES: #

- PROVIDE 480V, 3-PHASE CONNECTION TO INTEGRAL DISCONNECT SWITCHES ASSOCIATED WITH MAKE-UP AIR UNIT FAN AND CONDENSER. VERIFY LOCATIONS WITH KITCHEN EQUIPMENT VENDOR.
- PROVIDE INTERLOCK WIRING WITH GREASE HOOD CONTROLS AND INTERLOCK WITH ANSUL SYSTEM TO SHUT-DOWN UNIT(S) UPON ACTIVATION OF ANSUL SYSTEM. INTERLOCK WITH FIRE ALARM CONTROL PANEL TO SHUT DOWN UPON ACTIVATION OF SYSTEM.
- PROVIDE 30-AMP, 208V, 3-POLE, NON-FUSIBLE DISCONNECT SWITCH IN NEMA-3R ENCLOSURE FOR WALK-IN COOLER CONDENSER. INSTALL WITHIN 5-FT OF EQUIPMENT. VERIFY LOCATIONS WITH KITCHEN EQUIPMENT SUPPLIER.
- PROVIDE 480V, 3-PHASE CONNECTION TO INTEGRAL DISCONNECT SWITCH FOR KITCHEN EXHAUST FAN. VERIFY LOCATIONS WITH KITCHEN EQUIPMENT VENDOR.
- PROVIDE 120V CONNECTION TO INTEGRAL DISCONNECT SWITCH ASSOCIATED WITH EXHAUST FAN.
- PROVIDE AND INSTALL SURFACE-MOUNTED GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE TO SIDE OF MAKE-UP AIR UNIT. COORDINATE LOCATION WITH ACCESSIBLE PANELS ON EQUIPMENT.

PLUMBING PLAN NOTES: #

- CONNECT NATURAL GAS TO MAKE-UP AIR UNIT GAS INLET. PROVIDE SHUT-OFF VALVE, UNION, TEE AND 8-INCH DIRT LEG. SEE DETAIL 3/P500 FOR ROOFTOP EQUIPMENT GAS CONNECTION DETAIL.
- CONNECT 2-1/2" NG PIPE TO EXISTING PIPE STUB-UP THROUGH ROOF. INSTALL NEW UTILITY GAS METER ON EXISTING HEADER. COORDINATE WITH GAS UTILITY COMPANY.
- TRAP AND PIPE MECHANICAL EQUIPMENT CONDENSATE PER DETAIL 10/P500. ROUTE DRAIN PIPE TOWARDS NEAREST ROOF DOWNSPOUT, A MINIMUM OF 10-FEET AWAY FROM UNIT.
- EXISTING VENT THRU TO ROOF TO REMAIN.
- EXISTING ROOF DRAINS TO REMAIN.
- SEE DETAIL 8/P500 FOR TYPICAL GAS PIPE ROOF PENETRATION DETAIL.



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Overland Park, KS 66210
(816) 333-4373



07/29/2024

MO CERTIFICATE OF AUTHORITY
MO #1999137647

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LEE'S SUMMIT, MO 64086

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MEP NEW WORK
ROOF PLAN

MEP101



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MECHANICAL
DEMOLITION PLAN

DM100

GENERAL NOTES

1. THE DEMOLITION DRAWING INDICATES THE GENERAL EXTENT OF WORK. THE CONTRACTOR SHALL REMOVE ALL MECHANICAL AND ELECTRICAL DEVICES, PIPING, VALVES, FITTINGS, CONDUIT, AND MISCELLANEOUS SUPPORTS UNLESS STATED OTHERWISE. EQUIPMENT SHOWN IS FOR REFERENCE ONLY AND DOES NOT SHOW ALL ITEMS TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DEVICES, MATERIALS AND EQUIPMENT TO BE REMOVED.
2. CONTRACTOR SHALL VERIFY EXISTING DUCTWORK SIZE AND LOCATIONS.
3. CONTRACTOR SHALL PATCH ANY NEW/UNUSED HOLES IN EXISTING DUCTWORK CREATED BY DEMOLITION AIR TIGHT.

PLAN NOTES: #

1. REMOVE EXISTING SUPPLY AIR TERMINAL. REMOVE BRANCH DUCTWORK BACK TO MAIN TRUNK DUCT AS SHOWN. SEE SHEET M2 FOR NEW LOCATION.
2. REMOVE EXISTING EXHAUST FAN, CONTROLS AND ALL ASSOCIATED EXHAUST DUCTWORK.
3. EXISTING SUPPLY DIFFUSER TO REMAIN. MAINTAIN EXISTING AIRFLOW.
4. REMOVE EXISTING RETURN AIR GRILLE.
5. REMOVE AND RELOCATE EXISTING CONTROL DEVICE. PSEE SHEET M100 FOR NEW LOCATION.
6. REMOVE AND RELOCATE EXISTING SUPPLY DIFFUSER. SEE SHEET M100 FOR NEW LOCATION.

1 DEMOLITION MECHANICAL PLAN
1/8" = 1'-0"

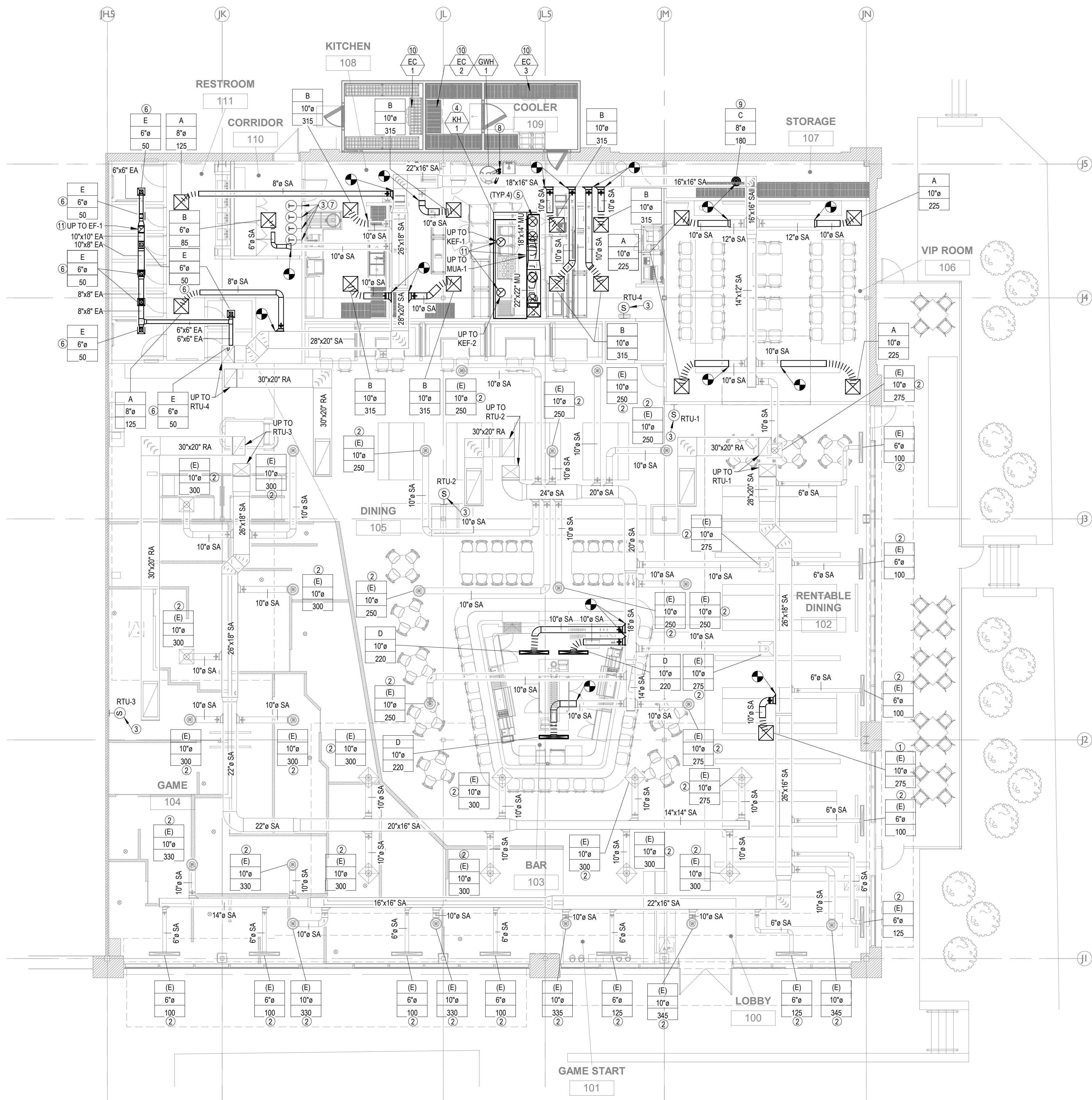
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GENERAL NOTES

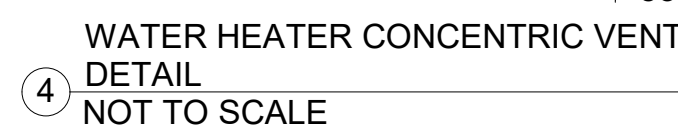
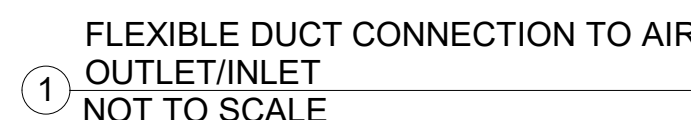
1. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO REVIEW GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO CONSTRUCTION.
2. DUCT SIZES SHOWN ARE AIR OPENING SIZE.
3. SEE SHEET 1/M500 FOR TYPICAL FLEXIBLE CONNECTION TO AIR INLET/OUTLET DETAIL.

PLAN NOTES: 

1. RELOCATED SUPPLY AIR TERMINAL. BALANCE AIRFLOW AS NOTED. SEE SHEET DM100 FOR ADDITIONAL INFORMATION.
2. EXISTING SUPPLY DIFFUSER TO REMAIN. BALANCE AIRFLOW AS NOTED.
3. RELOCATED CONTROL DEVICE. SEE SHEET DM100 FOR ADDITIONAL INFORMATION.
4. NEW KITCHEN HOOD AND PERFORATED SUPPLY PLENUM (PSP) FURNISHED BY KITCHEN VENDOR AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE WITH KITCHEN EQUIPMENT VENDOR PRIOR TO INSTALLATION OF MAKE-UP AIR AND EXHAUST DUCTWORK.
5. PROVIDE 16" ROUND TAKE-OFF WITH INTEGRAL DAMPER TO BOTTOM OF MAKE-UP AIR DUCTWORK. PROVIDE AND INSTALL FLEX DUCT AND CONNECT TO PERFORATED SUPPLY PLENUM SUPPLY CONNECTION. PROVIDE ROUND TO RECTANGULAR TRANSITION AS REQUIRED AS PSP INLET.
6. INSTALL MANUAL VOLUME DAMPER IN DUCT DROP DOWN TO GRILLE IN ACCESSIBLE LOCATION.
7. INSTALL FOUR (4) RELOCATED PROGRAMMABLE THERMOSTAT CONTROLS ONE FOR EACH RTU ON WALL IN CORRIDOR 110. COORDINATE FINAL LOCATION WITH TENANT/ARCHITECT. LIGHT SWITCHES AND OTHER DEVICES ON WALL. TEMPERATURE SENSING TO BE DEACTIVATED FOR THERMOSTAT. USE TEMPERATURE SENSOR LOCATED IN THE SPACE FOR TEMPERATURE SENSING.
8. INSTALL NEW TWO (2) 3" ROUND PVC WATER HEATER FLUES FROM INTAKI AND EXHAUST CONNECTIONS FROM WATER HEATER UP TO CONCENTRIC VENT ON TEN ROOF. SEE SHEET MEP101 FOR ADDITIONAL INFORMATION.
9. INSTALL PER DETAIL 9M500.
10. WALK-IN EVAPORATOR COIL PROVIDED BY KITCHEN EQUIPMENT SUPPLIER AND INSTALLED BY MECHANICAL CONTRACTOR.
11. PROVIDE TRANSITION AS REQUIRED FROM ROOFTOP EQUIPMENT INLET/OUTLET TO CONNECT TO NEW DUCTWORK.



1 NEW WORK MECHANICAL PLAN
1/8" = 1'-0"



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MECHANICAL DETAILS

M500

MAKE-UP AIR UNIT (MUA) SCHEDULE																					
TAG	MANUFACTURER	MODEL	AIR FLOW					HEATING			FAN ELECTRICAL				CONDENSER ELECTRICAL				WEIGHT	REMARKS	
			CFM	CFM	HP	RPM	ESP (IWG)	TYPE	CAPACITY MBH		EFFICIENCY	VOLTAGE/ PHASE	FLA	MCA	MOCP	VOLTAGE/ PHASE	FLA	MCA			MOCP
			DESIGN	MIN.					INPUT	OUTPUT											
MAU-1	CAPTIVEAIRE	A2-D 250-20D-MPU	2520	2000	1.00	1176	0.50	NAT. GAS	186.6	171.7	92.00	460/3	1.7	2.7	15	460/3	8.5	10.5	15	1362	1,2,3,4,5
NOTES:																					
1. PROVIDED WITH DISCHARGE AIR TEMPERATURE SENSOR (FIELD ADJUSTABLE) AND AC INTERLOCK RELAY CONTROL FROM KITCHEN EXHAUST HOOD ON/OFF SWITCH (FURNISHED BY KITCHEN EQUIPMENT SUPPLIER).																					
2. MAKE-UP AIR UNIT, ELECTRICAL BOX, AND SUPPLY DUCTS FURNISHED BY KITCHEN EQUIPMENT SUPPLIER AND INSTALLED BY CONTRACTORS. COORDINATE WITH SUPPLIER PRIOR TO INSTALLATION.																					
3. PROVIDE WITH MOTORIZED BACKDRAFT DAMPER (FURNISHED WITH UNIT).																					
4. UNIT TO HAVE LOW FIRE START AND AN INLET PRESSURE GAUGE OF 0 TO 35" WC AND MANIFOLD PRESSURE GAUGE OF .5 TO 15" WC.																					
5. UNITS TO BE SUPPLIED WITH INTEGRAL DISCONNECT SWITCHES FOR FAN AND CONDENSING UNIT.																					

EXISTING PACKAGED ROOFTOP UNITS (RTU)																			
Tag	MANUFACTURER	MODEL	EVAPORATOR				HEATING					ELECTRICAL					NOTES		
			CFM		HP	OD AMB	CAPACITY MBH (NET) TOTAL	NOM. TONS	NO. COMP./ STAGES	EER/ SEER @ AHRI	TYPE	HEATING STAGES	INPUT (KW)	OUTPUT (MBH)	VOLTAGE/ PHASE	MCA		MOCP	
			SA	OA															
RTU-1	LENNOX	LCH120	3795	1695	3.00	98.0	142.60	10.0	2/2	12.2	ELECTRIC	2.0	45.0	141.1	460/3	74.0	80	1	
RTU-2	LENNOX	LCH120	3735	1560	3.00	98.0	142.60	10.0	2/2	12.2	ELECTRIC	2.0	45.0	141.1	460/3	74.0	80	1	
RTU-3	LENNOX	LCH120	4175	1680	3.00	98.0	142.60	10.0	2/2	12.2	ELECTRIC	2.0	45.0	141.1	460/3	74.0	80	1	
RTU-4	LENNOX	LCH120	4030	1490	3.00	98.0	142.60	10.0	2/2	12.2	ELECTRIC	2.0	45.0	141.1	460/3	74.0	80	1.2	
NOTES:																			
1. PROVIDE A RELAY TO EF-1 CONNECTED TO PROGRAMMABLE THERMOSTAT. THE EXHAUST FAN SHALL OPERATE WHENEVER THE SUPPLY FAN FOR RTU-4 IS IN OPERATION.																			
2. EXISTING TO REMAIN. REBALANCE AIRFLOWS AS NOTED.																			

KITCHEN HOOD (KH) AND KITCHEN EXHAUST FAN (KEF) SCHEDULE																							
ROOFTOP EXHAUST FAN													KITCHEN HOOD										
TAG	MANUFACTURER	MODEL	CFM	ESTIMATED ESP (IN W.G.)	POWER (HP)	ELECTRICAL					WEIGHT (LBS)	RPM	NOTES	TAG	MANUFACTURER	MODEL	EXHAUST CFM	SUPPLY CFM	EA OPENING DIA.	SUPPLY OPENINGS	ESTIMATED ESP (IN W.G.)	WEIGHT (LBS)	NOTES
						VOLTAGE	PHASE	FLA	MCA	MOCP													
KEF-1	CAPTIVEAIRE	DU85HFA	1575	1.5	3/4	460	3	1.3	2.3	15	109	1507	1,2,5	KH-1	CAPTIVEAIRE	5424 ND-2-PSP-F	3150	2520	(2) 14"	(4) 8"x 36"	0.872	1130	3,4
KEF-2	CAPTIVEAIRE	DU85HFA	1575	1.5	3/4	460	3	1.3	2.3	15	109	1507	1,2,5										
NOTES:																							
1. INSTALL UPBLAST FAN ON FACTORY CURB (CURB FURNISHED BY KITCHEN EQUIPMENT SUPPLIER AND INSTALLED BY MECHANICAL CONTRACTOR). INSTALL ON EXISTING GREASE GUARD.																							
2. UNIT TO BE SUPPLIED WITH FAN SPEED CONTROLLER AND INTEGRAL DISCONNECT SWITCH (FURNISHED BY KITCHEN EQUIPMENT SUPPLIER AND INSTALLED BY CONTRACTOR)																							
3. KITCHEN HOOD FURNISHED AND INSTALLED BY KITCHEN EQUIPMENT SUPPLIER.																							
4. PROVIDED WITH AC INTERLOCK RELAY CONTROL FROM ASSOCIATED KITCHEN EXHAUST HOOD ON/OFF SWITCH.																							
5. EXHAUST FAN PROVIDED BY KITCHEN EQUIPMENT SUPPLIER AND INSTALLED BY MECHANICAL CONTRACTOR.																							

AIR INLET/OUTLET SCHEDULE						
TAG	MANUFACTURER	MODEL	TYPE	FACE SIZE	NOTES	
A	TITUS	OMNI	STEEL SUPPLY DIFFUSER	24x24	1,2,3	
B	TITUS	PAS	STEEL SUPPLY DIFFUSER	24x24	1,2	
C	TITUS	TMR	ROUND, DUCT MOUNTED DIFFUSER	(SEE DWGS)	1,2	
D	TITUS	TDB-30	4" LONG LINEAR SLOT DIFFUSER	4" LONG	1,3,4	
E	TITUS	PAR-AA	PERFORATED ALUMINUM EXHAUST GRILLE	12x12	1,2,3	
NOTES						
1. DIFFUSER FINISH COLOR TO MATCH ADJACENT CEILING FINISH PER THE ARCHITECTURAL DRAWINGS.						
2. PROVIDE WITH OPPOSED BLADE DAMPER.						
3. PROVIDE HARD FRAME FOR AIR DEVICES INSTALLED IN HARD CEILINGS/WALLS (SEE DWGS).						
4. PROVIDE SLOT DIFFUSER WITH (3) 1" SLOTS.						

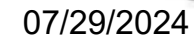
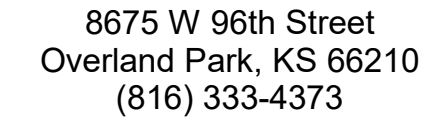
BUILDING AIR BALANCE SCHEDULE						
TAG	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXHAUST AIR CFM	RETURN AIR CFM	PRESSURIZATION AIR CFM	NOTES
RTU-1	3795	1695	-	2100	1695	2
RTU-2	3735	1560	-	2175	1560	2
RTU-3	4175	1680	-	2495	1680	2
RTU-4	4030	1490	-	2540	1490	2
EF-1	-	-	400	-	-400	1
KEF-1	-	-	1575	-	-1575	3
KEF-2	-	-	1575	-	-1575	3
MUA-1	-	2520	-	-	2520	4
TOTAL	15735	8945	3550	9310	5395	
NOTES:						
1. EXAUST FAN SIZED FOR 75CFM PER FLUSHABLE FIXTURE PER IMC CHAPTER 4 TABLE 403.3.1.1.						
2. SIZED PER IMC CHAPTER 4 TABLE 403.3. SEE OUTSIDE AIR CALCUALTIONS ON THIS SHEET.						
3. AIR EXHAUSTED THROUGH KITCHEN HOOD. SEE KITCHEN HOOD AND EXHAUST FAN SCHEDULE.						
4. MAKE-UP AIR FEEDS PERFORATED SUPPLY PLENUM AT HOOD.						

EXHAUST FAN SCHEDULE										
TAG	MANUFACTURER	MODEL	TYPE	CFM	ESTIMATED ESP (IN W.G.)	ELECTRICAL			RPM	NOTES
						VOLTAGE	PHASE	HP		
EF-1	COOK	ACRUD 150RH15D	ROOF UPBLAST	400	0.500	120	1	0.071	914	1,2,3,4
NOTES:										
1. UNIT TO BE SUPPLIED WITH FACTORY MOUNTED DISCONNECT AND FAN SPEED CONTROLLER.										
2. PROVIDE RELAY TO PROGRAMMABLE THERMOSTAT FOR RTU-4, SO THAT WHEN RTU-4 IS IN THE OCCUPIED MODE, EF-1 RUNS CONTINUOUSLY.										
3. INSTALL FAN ON FACTORY CURB PER THE MANUFACTURER'S SPECIFICATIONS.										
4. PROVIDE WITH BACKDRAFT DAMPER AND BIRD SCREEN.										

DUCT INSULATION MATERIAL SCHEDULE									
SYSTEM	TYPE	INSULATION							
		TEMPERATURE RATING	THERMAL CONDUCTIVITY	THICKNESS	DUCT SIZE	FITTING COVERS	LAGGING	SUPPORT	NOTES
SUPPLY DUCTS	TYPE 1, FLEXIBLE GLASS FIBER BLANKET WITH FOIL-SCRIM-KRAFT VAPOR BARRIER	UP TO 250 DEG. F.	0.26 @ 75 DEG. F.	1-1/2"	ALL SIZES	N/A	--	N/A	
RETURN DUCTS	TYPE 1, FLEXIBLE GLASS FIBER BLANKET WITH FOIL-SCRIM-KRAFT VAPOR BARRIER	UP TO 250 DEG. F.	0.26 @ 75 DEG. F.	1"	ALL SIZES	N/A	--	N/A	
GREASE EXHAUST DUCT	2-HR. 3M FIRE BARRIER DUCT WRAP WITH FSK JACKET	UP TO 2100 DEG. F.	N/A	1-1/2"	ALL SIZES	N/A	--	N/Q	1
NOTES:									
1. INSTALL PER MANUFACTURERS RECOMMENDATIONS. PROVIDE NUMBER OF LAYERS TO MEET 2-HOUR RATING.									

RTU-1 OUTSIDE AIR CALCULATIONS									
ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az	Ra	OCCUPANT DENSITY	Pz	Rp	Ez	BASELINE RATE
			SQFT	CFM/SQFT	#/1000	PEOPLE	CFM/person		Voz CFM
102	RENTABLE DINING	DINING ROOM	1304	0.18	70	91	7.5	0.8	1147
101	GAME START	LOBBY	216	0.06	10	2	5	0.8	29
100	LOBBY	LOBBY	354	0.06	10	4	5	0.8	52
105	DINING (1/6)	DINING ROOM	533	0.18	70	37	7.5	0.8	467
RTU-1 TOTALS			2407	-	-	134	-	-	1695

RTU-2 OUTSIDE AIR CALCULATIONS									
ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az	Ra	OCCUPANT DENSITY	Pz	Rp	Ez	BASELINE RATE Voz CFM
103	BAR	KITCHENS (COOKING)	SQFT	CFM/SQFT	#/1000	PEOPLE	CFM/person		
103	DINING (1/2)	DINING ROOM	450	0.12	20	7.5	0.8	152	
			1600	0.18	70	112	7.5	0.8	1410
RTU-2 TOTALS			2050	-	-	121	-	-	1562



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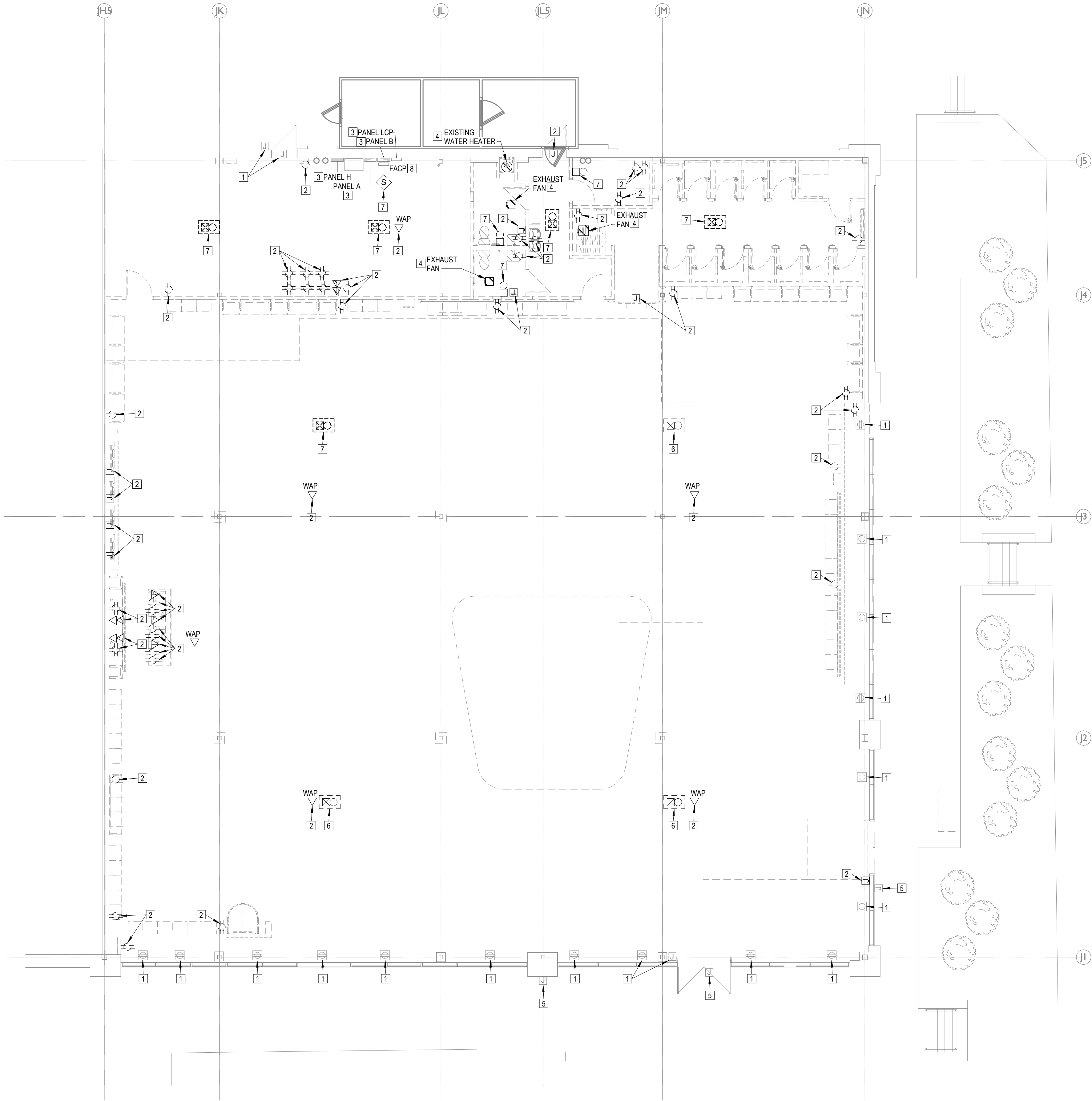
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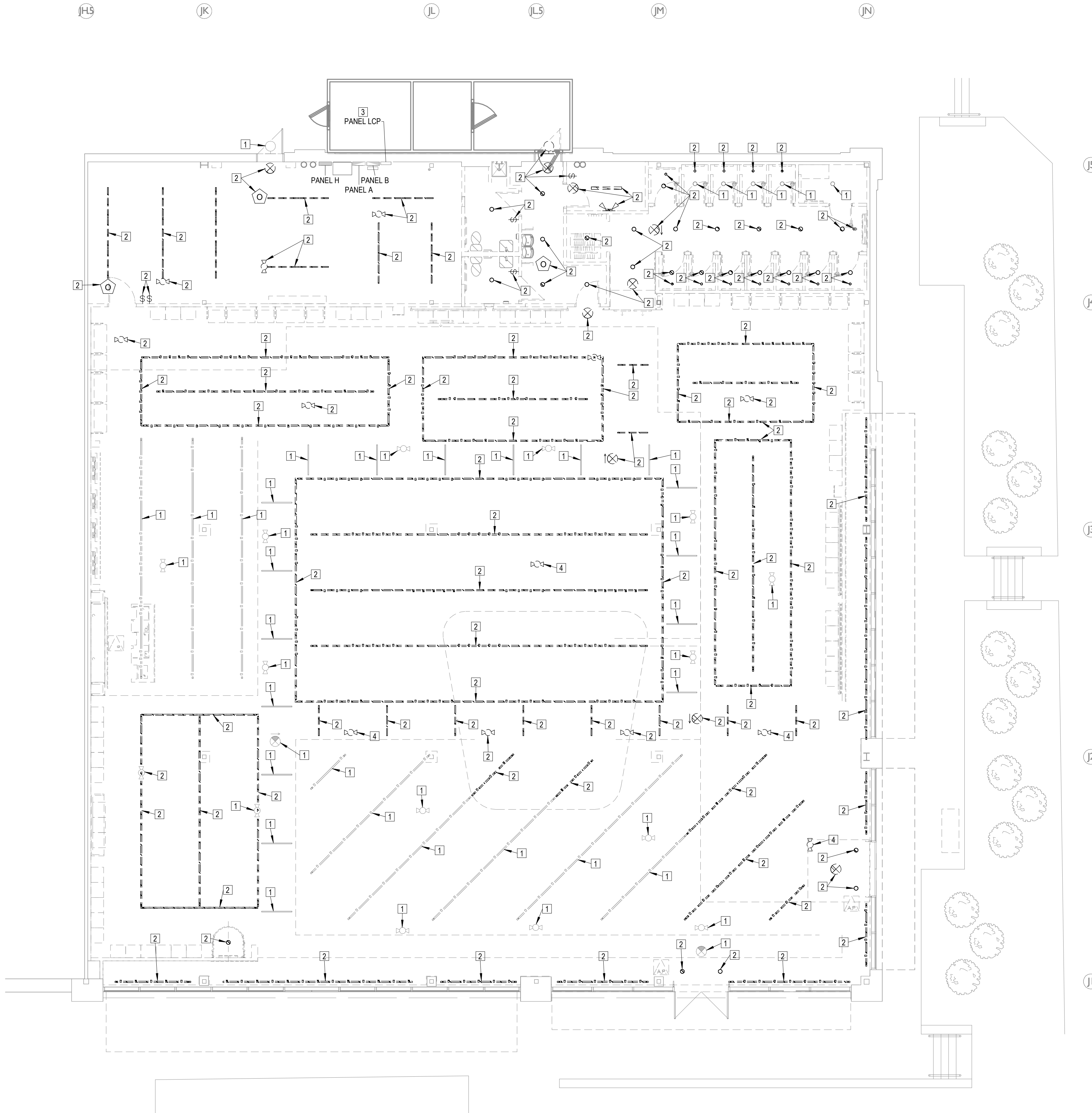
DE100

1. THE DEMOLITION DRAWING INDICATES THE GENERAL EXTENT OF WORK. THE CONTRACTOR SHALL REMOVE ALL MECHANICAL AND ELECTRICAL DEVICES, PIPING, VALVES, FITTINGS, CONDUIT, AND MISCELLANEOUS SUPPORTS UNLESS NOTED OTHERWISE. EQUIPMENT SHOWN IS FOR REFERENCE ONLY AND DOES NOT SHOW ALL ITEMS TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DEVICES, MATERIALS AND EQUIPMENT TO BE REMOVED.
2. WHERE FLOOR MOUNTED FIXTURES ARE CALLED TO BE REMOVED, PATCH FLOORS TO MATCH EXISTING TO REMAIN FLOORFINISHES OR PREP FOR NEW FLOOR BY OTHERS. VERIFY NEW WORK SCOPE OF FLOOR AND FINISHES ON ARCHITECTURAL PLANS.
3. REMOVE CONDUIT STUB UPS AND CAP EXISTING BELOW SLAB CONDUITS NOT TO BE USED IN NEW WORK CONCEALED BELOW FLOOR.
4. MAINTAIN/RESTORE ANY EXISTING CIRCUITS SERVING DEVICES TO REMAIN WHICH ARE NOT ON THE SAME CIRCUIT AS DEVICE INDICATED TO BE REMOVED.
5. CONTRACTOR SHALL FIELD VERIFY BRANCH CIRCUIT SOURCE PANEL AND NUMBER OF ANY EXISTING TO REMAIN DEVICES AND FIXTURES PRIOR TO DEMOLITION.
6. REMOVE ALL EXISTING LOW-VOLTAGE SECURITY, DATA AND AV DEVICES. COORDINATE WITH OWNER AND LANDLORD PRIOR TO REMOVAL.

1. EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
2. REMOVE EXISTING DEVICE. REMOVE ALL ASSOCIATED WIRES, CABLES AND CONDUITS BACK TO NEAREST J-BOX. IF DEVICE TO BE REMOVED IS A DATA DEVICE, REMOVE ASSOCIATED CABLES AND CONDUITS BACK TO SOURCE.
3. EXISTING PANELBOARD TO REMAIN. MAINTAIN EXISTING CIRCUIT BREAKERS AND BRANCH CIRCUITRY.
4. REMOVE EXISTING DEVICE ASSOCIATED WITH MECHANICAL/PLUMBING EQUIPMENT TO BE REMOVED. REMOVE ALL ASSOCIATED WIRES, CABLES, AND CONDUITS BACK TO SOURCE PANEL.
5. EXISTING JUNCTION BOX FOR SIGNAGE TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
6. EXISTING FIRE ALARM DEVICE TO REMAIN.
7. REMOVE AND RELOCATE EXISTING FIRE ALARM DEVICE. SEE SHEET EP100 FOR NEW LOCATION.
8. EXISTING FIRE ALARM CONTROL PANEL TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).



1 ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"



GENERAL NOTES

1. THE DEMOLITION DRAWING INDICATES THE GENERAL EXTENT OF WORK. THE CONTRACTOR SHALL REMOVE ALL MECHANICAL AND ELECTRICAL DEVICES, PIPING, VALVES, FITTINGS, CONDUIT, AND MISCELLANEOUS SUPPORTS UNLESS STATED OTHERWISE. EQUIPMENT SHOWN IS FOR REFERENCE ONLY AND DOES NOT SHOW ALL ITEMS TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DEVICES, MATERIALS AND EQUIPMENT TO BE REMOVED.
2. MAINTAIN/RESTORE ANY EXISTING CIRCUITS SERVING DEVICES TO REMAIN WHICH MAY BE ON THE SAME CIRCUIT AS DEVICE INDICATED TO BE REMOVED.
3. CONTRACTOR SHALL FIELD VERIFY BRANCH CIRCUIT SOURCE PANEL AND NUMBER OF ANY EXISTING TO REMAIN DEVICES AND FIXTURES PRIOR TO DEMOLITION.

PLAN NOTES: #

1. EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
2. REMOVE EXISTING LIGHT FIXTURE AND CONTROLS. REMOVE ALL ASSOCIATED WIRES, CABLES AND CONDUITS BACK TO THE NEAREST J-BOX.
3. EXISTING LIGHTING CONTROL PANEL TO REMAIN.
4. REMOVE AND RELOCATE EXISTING EMERGENCY LIGHT. SEE SHEET EL100 FOR NEW LOCATION.



8675 W 96th Street
Overland Park, KS 66210
(816) 333-4373



07/29/2024

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MO #1999137647

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Summit Fair
840-M NW BLUE PKWY, SUITE M
LEE'S SUMMIT, MO 64086

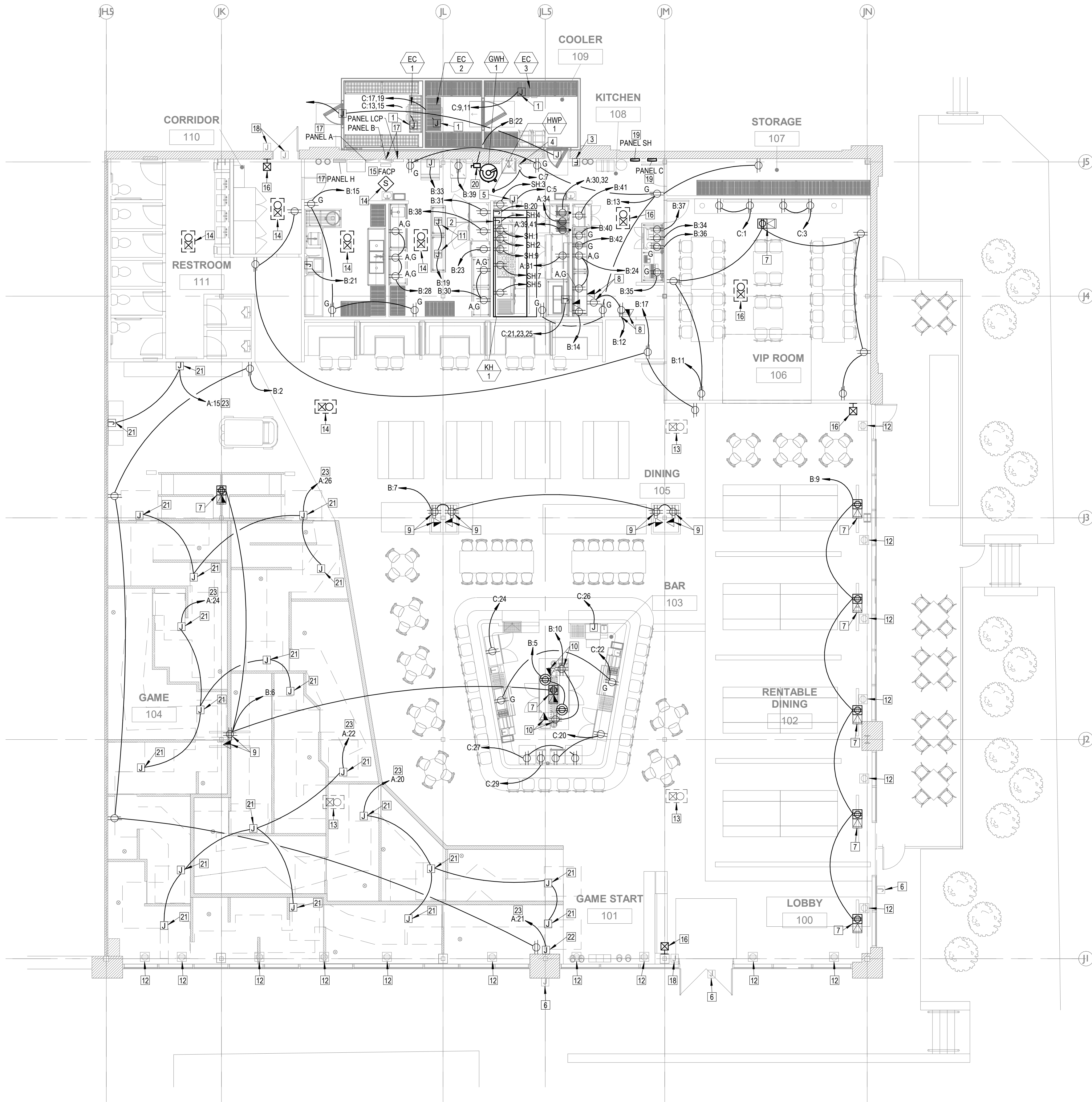
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LIGHTING
DEMOLITION PLAN

DEL100

1 DEMOLITION LIGHTING PLAN
1/8" = 1'-0"



1 NEW WORK ELECTRICAL PLAN
1/8" = 1'-0"

GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO REVIEW GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- PROVIDE PULL CORDS IN EMPTY CONDUITS TO BE PROVIDED FOR ALARM, NETWORK DATA AND MULTI-MEDIA OUTLETS.
- ALL CONDUITS RUN THROUGH WALLS TO UNDERFLOOR TO BE ROUTED BETWEEN VAPOR BARRIER AND FLOOR SLAB AND CONCEALED UP IN WALL TO ACCESSIBLE SPACE ABOVE CEILING.
- CONTRACTOR SHALL SAW CUT EXISTING SLAB TO RUN ANY BELOW SLAB CONDUITS.
- WHERE EXPOSED, IN GUEST-FACING AREA, ALL WIRING AND CABLING SHALL BE INSTALLED IN CONDUIT PAINTED TO MATCH ADJACENT SURFACES.

PLAN NOTES:

- PROVIDE 208V, SINGLE-PHASE MOTOR-RATED SWITCH FOR COOLER EVAPORATOR. INSTALL PER MANUFACTURERS SPECIFICATIONS.
- PROVIDE 120V CONNECTION TO TYPE I HOOD CONTROL PANEL. E.C. SHALL PROVIDE ALL INTERLOCK WIRING TO GAS LINE-UP SOLENOID, HOOD EXHAUST FANS AND HOOD MAKE-UP AIR UNITS AS REQUIRED PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE REMOTE FIRE PULL FOR ACTIVATION OF HOOD ANSUL SYSTEM. CONTRACTOR SHALL ENSURE REMOTE FIRE PULL STATION IS LOCATED A MINIMUM OF 10'-0" AND A MAXIMUM OF 20'-0" FROM THE TYPE I HOOD. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER SEE DETAIL 2/E601.
- PROVIDE 120V CONNECTION FOR CIRCULATION PUMP AND TIMER. PROVIDE MOTOR RATED TOGGLE SWITCH AS DISCONNECTING MEANS FOR HOT WATER CIRCULATION PUMP. INSTALL PER MANUFACTURERS RECOMMENDATIONS. COORDINATE WITH PLUMBING CONTRACTOR. CONTRACTOR SHALL FIELD LOCATE J-BOX AND SWITCH ABOVE ACCESSIBLE CEILING.
- PROVIDE 120V CONNECTION TO GAS SOLENOID VALVE. SOLENOID VALVE TO SHUT OFF GAS FLOW TO GAS LINE UPON ACTIVATION OF ANSUL CONNECT TO NEW HOOD CONTROL PANEL.
- USE EXISTING JUNCTION BOX AND CIRCUITRY FOR NEW SIGNAGE. MAINTAIN EXISTING BRANCH CIRCUITRY AND CIRCUIT BREAKER(S). MAINTAIN EXISTING AUTO ON/OFF CONTROLS FOR SIGNAGE.
- PROVIDE AND INSTALL (1) DUPLEX BOX WITH 15-AMP DUPLEX RECEPTACLES AND (1) DUPLEX BOX FOR DATA CONNECTIONS FOR POLE-MOUNTED MONITOR SCREENS OR PROJECTOR AT THE CEILING.
- PROVIDE 120V CONNECTION WITH ACCESS TO DATA FOR POS WALL MONITOR. FIELD LOCATE ELECTRICAL CONNECTION PER THE MANUFACTURERS RECOMMENDATIONS. COORDINATE WITH TENANT AND ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE SURFACE-MOUNTED QUAD RECEPTACLE AND DATA OUTLET FOR WALL-MOUNTED TV. COORDINATE MOUNTING HEIGHT AND DEVICE LOCATION WITH ARCHITECT/TENANT PRIOR TO ROUGH-IN.
- PROVIDE AND INSTALL QUAD RECEPTACLE AND DATA OUTLET WITH DATA FOR POS. COORDINATE DEVICE LOCATIONS, QUANTITY OF DATA CONNECTIONS AND MOUNTING HEIGHTS AFF WITH OWNER PRIOR TO ROUGH-IN.
- PROVIDE 120V CONNECTION AT THE CEILING FOR CORD REEL (CORD REEL PROVIDED BY KITCHEN EQUIPMENT VENDOR) PER THE MANUFACTURERS SPECIFICATIONS.
- EXISTING SHOW WINDOW RECEPTACLE TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
- EXISTING FIRE ALARM DEVICE TO REMAIN.
- RELOCATED FIRE ALARM DEVICE. SEE SHEET DE100 FOR ADDITIONAL INFORMATION.
- EXISTING FIRE ALARM CONTROL PANEL TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
- PROVIDE AND INSTALL NEW FIRE ALARM DEVICE AND CONNECT TO EXISTING FIRE ALARM SYSTEM. CONTRACTOR SHALL VERIFY COMPATIBILITY WITH EXISTING SYSTEM.
- EXISTING PANELBOARD TO REMAIN. MAINTAIN EXISTING CIRCUIT BREAKERS AND BRANCH CIRCUITRY.
- EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY AND CIRCUIT BREAKER(S).
- SEE ONE-LINE DIAGRAM ON SHEET E601 FOR ADDITIONAL INFORMATION ON ELECTRICAL EQUIPMENT.
- PROVIDE 120V, 15-AMP DISCONNECT SWITCH IN NEMA-1 ENCLOSURE FOR GAS WATER HEATER. CONNECT PER MANUFACTURER'S SPECIFICATIONS.
- PROVIDE 120V CONNECTION TO PUTT PUTT HOLE OR GAME PODIUM. COORDINATE WITH MANUFACTURER AND OWNER.
- PROVIDE 120V CONNECTION IN CONCEALED LOCATION FOR WALL-MOUNTED MARQUEE LETTERS. COORDINATE WITH OWNER AND MANUFACTURER FOR CIRCUITING AND CONNECTION REQUIREMENTS.
- CIRCUIT NOTED BRANCH CIRCUIT THROUGH LIGHTING CONTROL PANEL FOR AUTOMATIC ON/OFF CONTROL DURING BUSINESS HOURS. SEE LIGHTING CONTROL PANEL SCHEDULE ON SHEET E601 FOR ADDITIONAL INFORMATION.



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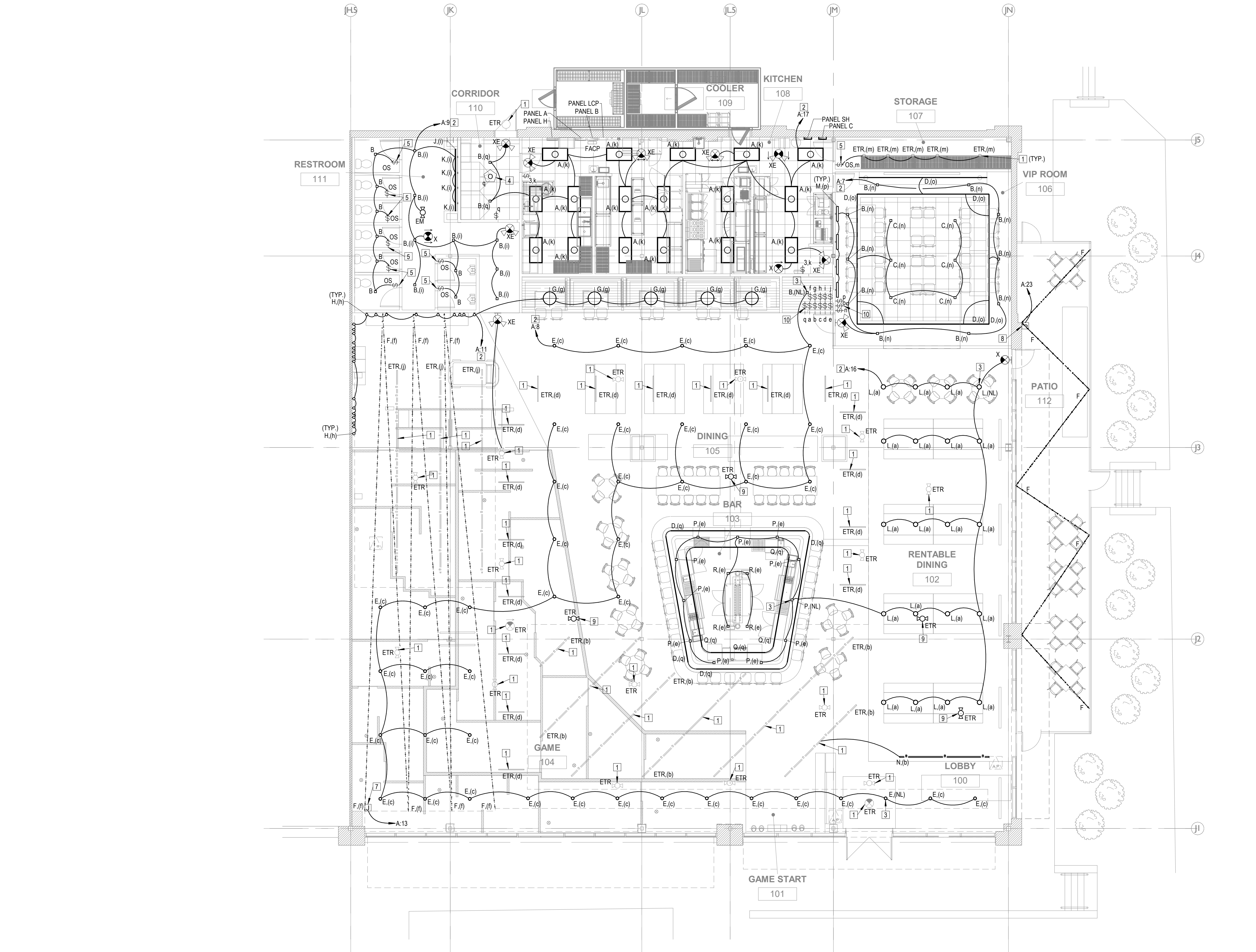
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ELECTRICAL NEW
WORK PLAN

EP100



1 LIGHTING NEW WORK PLAN
1/8" = 1'-0"

GENERAL NOTES:

- 1. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO REVIEW GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- 2. ALL EXIT SIGNS AND EMERGENCY FIXTURES SHALL BE CONNECTED TO THE UN-SWITCHED "HOT LEG" OF LIGHTING CIRCUIT.
- 3. LOCATE ALL JUNCTION BOXES WITH WHIPS FOR LIGHT FIXTURES ABOVE ACCESSIBLE CEILING. IF LOCATED ABOVE INACCESSIBLE CEILING, PROVIDE ACCESS PANEL PER THE CEILING MANUFACTURER'S SPECIFICATIONS.
- 4. SEE ARCHITECTURAL PLANS FOR EXACT DIMENSIONED LOCATIONS OF LIGHT FIXTURES AND INSTALLATION HEIGHTS AFF.
- 5. SEE ARCHITECTURAL DRAWINGS TO DETERMINE WHICH EXISTING LIGHT FIXTURES ARE TO BE PAINTED.

PLAN NOTES: #

- 1. EXISTING LIGHT FIXTURE TO REMAIN. MAINTAIN EXISTING BRANCH CIRCUITRY AND CIRCUIT BREAKER(S) UNLESS NOTED OTHERWISE.
- 2. CIRCUIT NOTED SWITCH LEGS IN BRANCH CIRCUIT THROUGH LIGHTING CONTROL PANEL FOR AUTOMATIC ON/OFF CONTROL OF LIGHTING DURING BUSINESS HOURS. SEE LIGHTING CONTROL PANEL SCHEDULE ON SHEET E601 FOR ADDITIONAL INFORMATION.
- 3. CONNECT LIGHT FIXTURE TO UNSWITCHED CIRCUIT.
- 4. PROVIDE CEILING-MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR. CIRCUIT WITH CONTROLS AND LIGHT FIXTURES IN SAME ROOM.
- 5. PROVIDE DUAL-TECHNOLOGY OCCUPANCY SENSOR/LIGHT SWITCH COMBINATION. CIRCUIT WITH CONTROLS AND LIGHT FIXTURES IN SAME ROOM.
- 6. LIGHT SWITCH BANK. COORDINATE WITH TENANT ON WHICH SWITCH LEGS THEY DESIRE TO BE CONTROLLED VIA A DIMMER SWITCH. ASSUME ALL SWITCHES TO BE DIMMABLE.
- 7. PROVIDE HARD-WIRED CONNECTION TO TYPE F FESTOON LIGHTING ON SWITCH LEG Y. FIELD COORDINATE ELECTRICAL CONNECTION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 8. PROVIDE WEATHERPROOF HARD-WIRED CONNECTION TO EXTERIOR FESTOON LIGHTING. FIELD COORDINATE ELECTRICAL CONNECTION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 9. RELOCATED EMERGENCY LIGHT. SEE SHEET DEL100 FOR ADDITIONAL INFORMATION. MAINTAIN EXISTING BRANCH CIRCUITRY AND CIRCUIT BREAKER(S).
- 10. ALL LIGHT SWITCHES TO BE DIMMABLE.

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GENERAL NOTES

- THE TOTAL LOAD SHOWN (VA AND AMPERAGE) ON EXISTING PANELS ARE ADDITIONAL LOADS ADDED OR TAKING THE PLACE OF DEMOLISHED CIRCUIT AND DO NOT REFLECT EXISTING LOADS TO REMAIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY EXISTING LOAD CAPACITIES TO ENSURE ADDED LOADS WILL NOT EXCEED THE EXISTING PANELBOARD AMP RATINGS OR THE AMPERAGE RATINGS OF UPSTREAM CIRCUIT BREAKERS AND FEEDER CONDUCTORS.
- CONTRACTOR SHALL DETERMINE IF ANY CIRCUITS ARE NOT IN USE AFTER DEMOLITION. IF A CIRCUIT IS NOT IN USE, FLIP THE EXISTING BREAKER TO OFF POSITION AND LABEL AS "SPARE."
- ALL BOLDED BRANCH CIRCUITS WITH A BOLDED TRIP RATING AND NUMBER OF POLES IS A NEW CIRCUIT BREAKER INSTALLED IN EXISTING SPACE(S), COORDINATE WITH PANELBOARD MANUFACTURER ON NEW BREAKER REQUIREMENTS.
- ALL BOLDED BRANCH CIRCUIT NAMES ARE NEW CIRCUITS CREATED BY TENANT FINISH OR DEMOLITION.

PANEL SCHEDULE NOTES LEGEND

(G) = GFCI TYPE BREAKER
(SH) = SHUNT TRIP BREAKER, REFERENCE DETAIL 3/E601.
LCP = CIRCUIT ROUTED THROUGH LIGHTING CONTROL PANEL LCP FOR AUTO ON/OFF CONTROL

Branch Circuit Feeder Schedule (3 Phase W/Neutral)															
Circuit Breaker Size (Amps)	3 Phase W/ Neutral					3 Phase					1 Phase				
	3 Pole					3 Pole					2 Pole or 1 Pole				
	No. of Cond.	Hot	No. of Cond.	Ground	Conduit (Inches)	No. of Cond.	Hot	No. of Cond.	Ground	Conduit (Inches)	No. of Cond.	Hot	No. of Cond.	Ground	Conduit (Inches)
15	4	12	1	12	1/2	3	12	1	12	1/2	2	12	1	12	1/2
20	4	12	1	12	1/2	3	12	1	21	1/2	2	12	1	12	1/2
25	4	10	1	10	1/2	3	10	1	10	1/2	2	10	1	10	1/2
30	4	10	1	10	1/2	3	10	1	10	1/2	2	10	1	10	1/2
40	4	8	1	10	3/4	3	8	1	10	1/2	2	8	1	10	1/2
50	4	6	1	10	3/4	3	6	1	10	3/4	2	6	1	10	3/4
60	4	4	1	10	1	3	4	1	10	1	2	4	1	10	3/4
70	4	4	1	8	1	3	4	1	8	1	2	4	1	8	3/4
80	4	3	1	8	1-1/4	3	3	1	8	1	2	3	1	8	1
90	4	2	1	8	1-1/4	3	2	1	8	1	2	2	1	8	1
100	4	1	1	8	1-1/4	3	2	1	8	1-1/4	2	2	1	8	1-1/4
110	4	1	1	6	1-1/4	3	1	1	7	1-1/4	2	1	1	6	1-1/4
125	4	1	1	6	1-1/4	3	1	1	6	1-1/4	2	1	1	6	1-1/4
130	4	1	1	6	1-1/4	3	1	1	6	1-1/2	2	1	1	6	1-1/4
140	4	1/0	1	6	1-1/2	3	1/0	1	6	1-1/4	2	1/0	1	6	1-1/4
150	4	1/0	1	6	1-1/2	3	1/0	1	6	1-1/4	2	1/0	1	6	1-1/4
160	4	2/0	1	6	2	3	2/0	1	6	1-1/4	2	2/0	1	6	1-1/4
170	4	2/0	1	6	2	3	2/0	1	6	1-1/2	2	2/0	1	6	1-1/4
180	4	3/0	1	6	2	3	3/0	1	6	1-1/2	2	3/0	1	6	1-1/2
190	4	3/0	1	6	2	3	3/0	1	6	1-1/2	2	3/0	1	6	1-1/2
200	4	3/0	1	6	2	3	3/0	1	6	1-1/2	2	3/0	1	6	1-1/2

- FOR EACH CIRCUIT, SIZE THE WIRE BASED ON CIRCUIT BREAKER SIZE SHOWN IN THE PANELBOARD SCHEDULES AS INDICATED ABOVE (UNLESS NOTED OTHERWISE).
- HOT AND NEUTRAL CONDUCTOR SIZING IS BASED ON TABLE 310.16, COPPER CONDUCTORS.
- GROUND CONDUCTOR SIZING IS BASED ON TABLE 250.122, COPPER GROUND CONDUCTOR.
- CONDUIT SIZING IS BASED ON (EMT) WITH TYPE THINWALL CONDUCTOR INSULATION.

PANELBOARD: A																										
BUS RATING: 250 A				MOUNTING: SURFACE				SUPPLY FROM: XFMR				MINIMUM AIC... 10,000A														
MAIN TYPE: MCB - 150 A				ENCLOSURE: NEMA-1				LOCATION: KITCHEN 108				ACCESSORIES:														
VOLTAGE: 120/208 (3Ø-4W)																										
NOTES	CKT	DESCRIPTION						AMP	P	A		B		C		P	AMP	DESCRIPTION						CKT	NOTES	
	LCP	1	TRACK LIGHTING						20	1	0.24	0.14				1	20	EMERGENCY LIGHTING						2		
	LCP	3	TRACK LIGHTING						20	1			0.34	0.04		1	20	TRACK LIGHTING						4	LCP	
	LCP	5	STORAGE ROOM LIGHTING						20	1					0.12	0.03	1	20	TRACK LIGHTING						6	LCP
	LCP	7	PARTY LIGHTING						20	1	0.69	1.70				1	20	SUSPENDED CYLINDERS						8	LCP	
	LCP	9	BATHROOM LIGHTING						20	1			0.41	0.03		1	20	TRACK LIGHTING						10	LCP	
	LCP	11	PUTT PUTT LIGHTING						20	1					0.29	0.00	1	20	SPARE						12	--
	LCP	13	PUTT PUTT FESTOON LIGHTING						20	1	1.00	0.00				1	20	SPARE						14	--	
	LCP	15	GAMES						20	1			0.50	1.45		1	20	DINING LIGHTING						16	LCP	
	LCP	17	KITCHEN LIGHTING						20	1					0.51	0.00	1	20	SPARE						18	--
		19	EXHAUST FAN EF-1						15	1	0.00	1.25				1	20	PUTT PUTT HOLES						20		
		21	INTERIOR SIGNAGE						20	1			0.00	1.25		1	20	PUTT PUTT HOLES						22		
	LCP	23	EXTERIOR STRING LIGHTS						20	1					0.43	1.25	1	20	PUTT PUTT HOLES						24	
	LCP	25	SHOW WINDOW RECEPT.						20	1	1.08	1.00				1	20	PUTT PUTT HOLES						26		
	LCP	27	SHOW WINDOW RECEPT.						20	1			0.90	0.00		1	20	PUTT PUTT HOLES						28	--	
	LCP	29	SHOW WINDOW RECEPT.						20	1					0.90	2.08	2	30	OVEN, MICROWAVE (G)						30	(G)
	(G)	31	SANDWICH/SALAD PREP FRIDGE						20	1	0.65	2.08													32	
	LCP	33	BLADE SIGN						20	1			0.50	0.26		1	20	WORKTOP REFRIGERATOR						34	(G)	
	LCP	35	EXTERIOR BUILDING SIGNAGE						20	1					0.50	11.11									36	
	LCP	37	EXTERIOR BUILDING SIGNAGE						20	1	0.50	9.38					3	80	PANEL C						38	
	(G)	39	SANDWICH PANINI GRILL						20	2			1.80	9.25	1.80	0.50	1	20	LCP						40	
	41																									
TOTAL KVA:								19.70 kVA		16.74 kVA		19.52 kVA														
TOTAL AMPS:								168 A		139 A		166 A														
LOAD CLASSIFICATION			CONNECTED LOAD			DEMAND FACTOR			ESTIMATED DEMAND			PANEL TOTALS														
EQUIPMENT			120 VA			100.00%			120 VA			TOTAL CONNECTED KVA: 55.96 KVA														
HVAC			0 VA			0.00%			0 VA			TOTAL ESTIMATED DEMAND KVA: 46.60 KVA														
LIGHTING			12898 VA			125.00%			16122 VA			TOTAL CONNECTED CURRENT: 155 A														
LIGHTING - EXTERIOR			272 VA			125.00%			340 VA			TOTAL ESTIMATED DEMAND CURRENT: 129 A														
MOTORS			0 VA			0.00%			0 VA																	
RECEPTACLE			3960 VA			100.00%			3960 VA																	
SIGN/DISPLAY			1500 VA			125.00%			1875 VA																	
KITCHEN - COMMERCIAL			37207 VA			65.00%			24185 VA																	

LIGHT FIXTURE SCHEDULE									
TYPE MARK	MANUFACTURER	MODEL NUMBER	WATTAGE	LAMP TYPE	VOLTAGE	FINISH	MOUNTING	DESCRIPTION	
A	LITHONIA	2GTL 4 40L GZ10 LP836	29.8 VA	LED	120V	WHITE	LAY-IN	2x4 LED TROFFER. SUITABLE FOR MANUAL DIMMING.	
B	LITHONIA	LDN4SQ-30/15-LS4-BR-LSS-MVO LT-GZ10	17.5 VA	LED	120V	BLACK	RECESSED	4" SQUARE RECESSED ANTI GLARE LED DOWNLIGHT	
C	LITHONIA	LDN4SQ-30/25-LS4-BR-LSS-MVO LT-GZ10	26.1 VA	LED	120V	BLACK	RECESSED	4" SQUARE RECESSED ANTI GLARE LED DOWNLIGHT	
D	DIODE LED	DI-12V-BLSC2-30-016-IES	59.3 VA	LED	120V	N/A	SURFACE	2.9 W/SQ.FT. LED TAPE LIGHT WITH FROSTED LENS. PROVIDE WITH ALUMINUM CHANNEL AND FLUSH FROSTED LENS. PROVIDE ALL REQUIRED END CAPS, FITTINGS, ETC. PROVIDE MANUFACTURER RECOMMENDED LOW-VOLTAGE TRANSFORMER AND INSTALL IN ACCESSIBLE AND CONCEALED LOCATION.	
E	NORA LIGHTING	NYLM-5C-30X-BB-LE4	40.0 VA	LED	120V	BLACK	CABLE	6" LED CYLINDER PENDANT. SUITABLE FOR MANUAL DIMMING.	
EM	LITHONIA	ELM2LB	2.4 VA	LED	120V	BLACK	SURFACE	WALL MOUNTED DUAL-HEAD EMERGENCY LIGHT WITH EMERGENCY BATTERY.	
F	CYBER TECH LIGHTING	24-LIGHT 48 FOOT LED STRING LIGHT SET	24.0 VA	LED	120V	BLACK	STRING	STRING LIGHT SET	
G	LUMENS	VISO, GLOBE PENDANT	14.0 VA	LED	120V	WHITE	PENDANT	19.7" LARGE DIAMETER LED PENDANT GLOBE.	
H	ACCESS LIGHTING	20294-SAT/FST	9.0 VA	LED	120V	SATIN	WALL	NAUTICUS WALL SCONCE.	
J	ALCON LIGHTING	15233-4-8-30K-80-D-010	64.0 VA	LED	120V	WHITE	COVE	LED PERIMETER RECESSED COVE FIXTURE.	
K	LIGHTLOGY	ACC83697	14.0 VA	LED	120V	BLACK	WALL	NAUTICUS OVAL OUTDOOR BULKHEAD WALL/CEILING LIGHT. PROVIDE WITH DIMMABLE LED COMPATIBLE BULB WITH CCT OF 3000K.	
L	NORA LIGHTING	NYLM-5SC-30X-BB-LE4	24.7 VA	LED	120V	BLACK	SURFACE	SURFACE-MOUNTED 6" ROUND LED CYLINDER.	
M	CERNO	CERNO ROUND PROFILE LED ART LIGHT, 24-INCH, 3000K CCT	14.0 VA	LED	120V	GOLD	WALL	DECORATIVE WALL SCONCE.	
N	NORDIC	TUBIX R COB 3000 274-505-20	11.0 VA	LED	120V	BLACK	TRACK	LED TRACK LIGHT. SUITABLE FOR MANUAL DIMMING. PROVIDE WITH JUNO T 14FT BLACK TRACK AND PROVIDE WITH (4) HEADS.	
P	LITHONIA	LDN4SQ-30/15-LS4-WR-LSS-MVO LT-GZ10	40.0 VA	LED	120V	WHITE	RECESSED	4" SQUARE RECESSED ANTI GLARE LED DOWNLIGHT	
Q	KLUS	8K-KWP-CR30-1220-24	59.3 VA	LED	120V	SILVER ANODIZED	SURFACE	2.9 W/SQ.FT. LED TAPE LIGHT. PROVIDE WITH ALUMINUM CHANNEL AND FLUSH FROSTED LENS. PROVIDE WITH 45-ALU A4023ANODA EXTRUDED CHANNEL WITH FROSTED LENS. PROVIDE MANUFACTURER RECOMMENDED LOW-VOLTAGE TRANSFORMER AND INSTALL IN ACCESSIBLE AND CONCEALED LOCATION.	
R	JUNO	2LEDTRIM-G2-SQ-30K-90CRI-FL-WWH-2LEDDRIVER-G2-10LM-MV OLT-ZT	10.9 VA	LED	120V	WHITE	RECESSED	2" SQUARE RECESSED ANTI GLARE LED DOWNLIGHT	
X	LITHONIA	EDG 1 R EL	3.8 VA	LED	120V	N/A	WALL/CEILING	SINGLE-FACE LED EXIT LIGHT WITH EMERGENCY BATTERY. COORDINATE ARROWS AND QUANTITY OF FACES WITH LIGHTING PLAN.	
XE	COMPASS	CELCRXRN	5.0 VA	LED	120V	N/A	WALL/CEILING	EXIT LIGHT WITH DUAL-HEAD EMERGENCY FIXTURES AND BATTERY BACKUP. COORDINATE WITH DRAWINGS WHETHER EXIT SIGN IS WALL-MOUNTED OR RECESSED CEILING MOUNTED.	

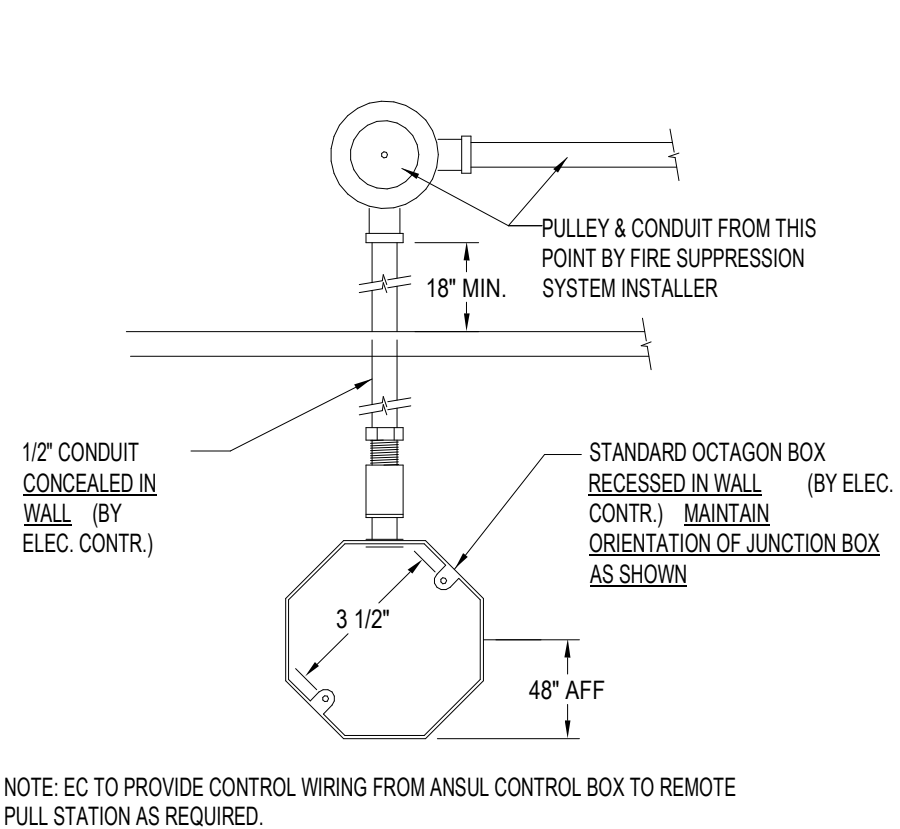
LIGHTING CONTROL PANEL SCHEDULE									
RELAY #	TYPE	LOAD NAME	ZONE	CIRCUIT	RELAY #	TYPE	LOAD NAME	ZONE	CIRCUIT
1	SM	TRACK LIGHTING	1a	A-1	25	SM	INTERIOR SIGNAGE	1a	A-21
2	SM	TRACK LIGHTING	1a	A-3	26	SM	EXTERIOR STRING LIGHTS	5	A-23
3	SM	STORAGE ROOM LIGHTING	1b	A-5	27	SM	SHOW WINDOW RECEPT.	5	A-25
4	SM	PARTY ROOM LIGHTING	1a	A-7	28	SM	SHOW WINDOW RECEPT.	5	A-27
5	SM	RESTROOM LIGHTING	1a	A-9	29	SM	SHOW WINDOW RECEPT.	5	A-29
6	SM	PUTT PUTT LIGHTING	1a	A-11	30	SM	SPARE		
7	SM	PUTT PUTT STRING LIGHTS	1a	A-13	31	SM	BLADE SIGN	5	A-33
8	SM	PODIUM GAMES	1a	A-15	32	SM	BUILDING SIGNAGE	5	A-35
9	SM	KITCHEN LIGHTING	1b	A-17	33	SM	BUILDING SIGNAGE	5	A-37
10	SM	TRACK LIGHTING	2a	A-4	34	SM	SPARE		
11	SM	TRACK LIGHTING	2b	A-6	35	SM	SPARE		
12	SM	DINING CYLINDERS	2a	A-8	36	SM	SPARE		
13	SM	TRACK LIGHTING	2b	A-10	37	SM	SPARE		
14	SM	SPARE			38	SM	SPARE		
15	SM	SPARE			39	SM	SPARE		
16	SM	DINING LIGHTING	2a	A-16	40	SM	SPARE		
17	SM	SPARE			41	SM	SPARE		
18	SM	PUTT PUTT HOLES	1a	A-20	42	SM	SPARE		
19	SM	PUTT PUTT HOLES	1a	A-22	43	SM	SPARE		
20	SM	PUTT PUTT HOLES	1a	A-24	44	SM	SPARE		
21	SM	PUTT PUTT HOLES	1a	A-26	45	SM	SPARE		
22	SM	SPARE			46	SM	SPARE		
23	SM	SPARE			47	SM	SPARE		
24	SM	SPARE			48	SM	SPARE		

LIGHTING CONTROL ZONES	
ZONE #	LOAD TYPE
1a	GENERAL LIGHTING A
1b	GENERAL LIGHTING B
2a	TRACK LIGHTING A
2b	TRACK LIGHTING B
5	SHOW WINDOWS/SIGNAGE

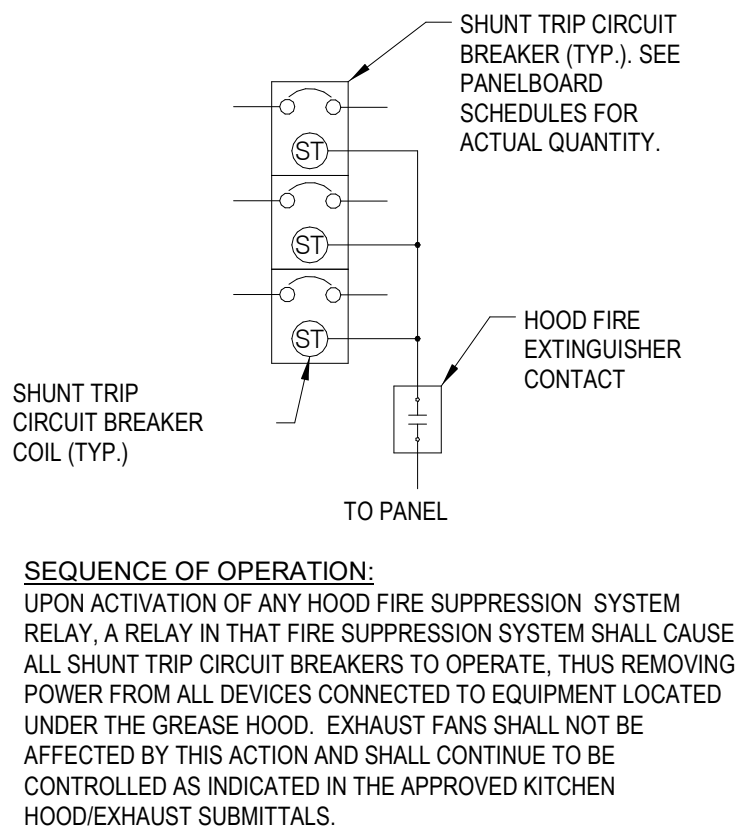
NOTES:

1. VERIFY ZONING AND SCHEDULING WITH OWNER.

2. ZONE 5 SHALL BE CONTROLLED VIA TIMECLOCK ONLY. NO MANUAL CONTROLS.



2 REMOTE FIRE PULL DETAIL
NOT TO SCALE

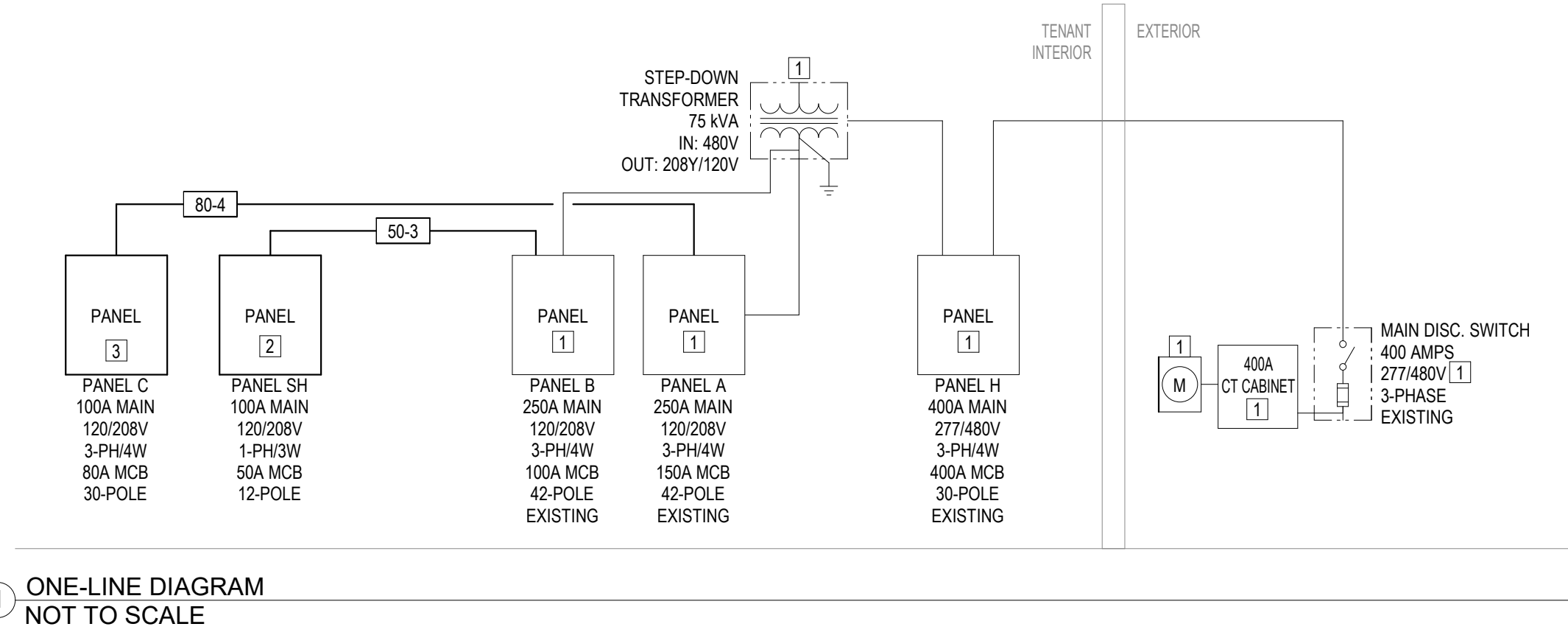


3 SHUNT TRIP BREAKER DETAIL
NOT TO SCALE

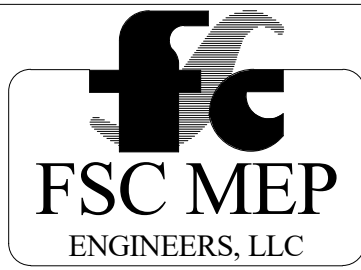
CONDUCTOR SCHEDULE						
TAG	MAX OCP	SETS	PHASE CONDUCTORS	GROUND CONDUCTOR	CONDUIT	NOTES
80-4	80 A	1	(4) #4 AWG	(1) #8 EG	1-1/4"	
50-3	45 & 50 A	1	(3) #8 AWG	(1) #10 EG	3/4"	
CONDUCTOR SCHEDULE NOTES (APPLIES TO ALL):						
• MINIMUM SIZE CONDUIT ALLOWED. CONTRACTOR SHALL INCREASE CONDUIT SIZE AT THEIR DISCRETION.						
• ALL CONDUIT SHALL BE EMT WITH THINWALL COPPER CONDUCTORS UNLESS NOTED OTHERWISE.						

PLAN NOTES:

- EXISTING TO REMAIN.
- PROVIDE 100 AMP, 12-POLE, 120/208V, SINGLE-PHASE, 3-WIRE PANELBOARD WITH 50-AMP MAIN CIRCUIT BREAKER. PROVIDE PANELBOARD WITH SOLID NEUTRAL. SEE PANELBOARD SCHEDULE ON SHEET E600 FOR ADDITIONAL INFORMATION. PANELBOARD TO BE FED VIA SHUNT TRIP BREAKER IN PANEL A SO THAT ALL BRANCH CIRCUITS ON PANEL SH ARE SHUNT TRIP PROTECTED. INSTALL NEW BREAKER PER DETAIL 3 ON THIS SHEET.
- PROVIDE 100 AMP, 30-POLE, 120/208V, 3-PHASE, 4-WIRE PANELBOARD WITH 80-AMP MAIN CIRCUIT BREAKER. PROVIDE PANELBOARD WITH SOLID NEUTRAL. SEE PANELBOARD SCHEDULE ON SHEET E600 FOR ADDITIONAL INFORMATION.



1 ONE-LINE DIAGRAM
NOT TO SCALE



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ELECTRICAL
SCHEDULES AND
ONE-LINE
DIAGRAM

E601



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PLUMBING
DEMOLITION PLAN

DP100

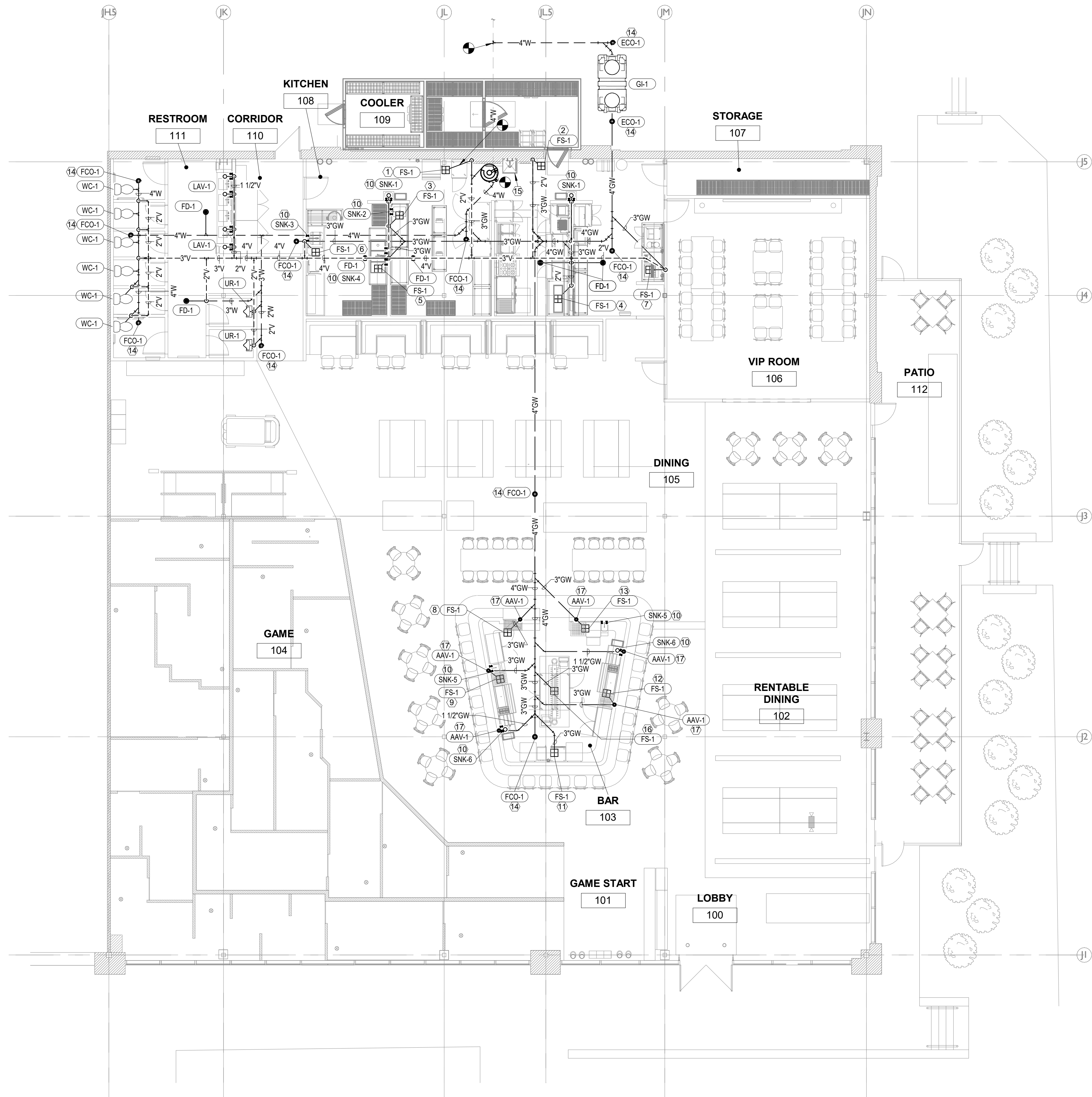
GENERAL NOTES

1. THE DEMOLITION DRAWING INDICATES THE GENERAL EXTENT OF WORK. THE CONTRACTOR SHALL REMOVE ALL MECHANICAL AND ELECTRICAL DEVICES, PIPING, VALVES, FITTINGS, CONDUIT, AND MISCELLANEOUS SUPPORTS UNLESS STATED OTHERWISE. EQUIPMENT SHOWN IS FOR REFERENCE ONLY AND DOES NOT SHOW ALL ITEMS TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DEVICES, MATERIALS AND EQUIPMENT TO BE REMOVED.
2. VERIFY LOCATION OF ALL EXISTING PIPING PRIOR TO DEMO WORK.
3. WHERE FLOOR MOUNTED FIXTURES ARE CALLED TO BE REMOVED, PATCH FLOORS TO MATCH EXISTING TO REMAIN FLOOR/FINISHES OR PREP FOR NEW FLOOR BY OTHERS. VERIFY NEW WORK SCOPE OF FLOOR AND FINISHES ON ARCHITECTURAL PLANS.

PLAN NOTES: #

1. REMOVE EXISTING PLUMBING FIXTURE.
2. REMOVE ALL DOMESTIC WATER PIPING, TENANT SUB-METER BACK TO MAIN.
3. REMOVE ALL SANITARY WASTE PIPING BELOW GRADE PAST THIS POINT.
4. REMOVE WATER HEATER AND ALL DOMESTIC HOT WATER PIPING IN ITS ENTIRETY.
5. REMOVE ALL EXISTING SANITARY VENT PIPING BACK TO VENT THRU ROOF. MAINTAIN EXISTING ROOF PENETRATION AND VENT THRU ROOF.

1 DEMOLITION PLUMBING PLAN
1/8" = 1'-0"



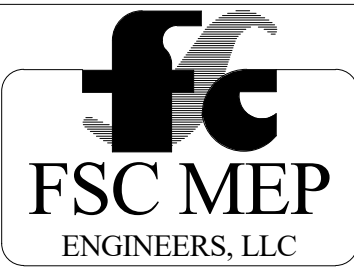
NEW WORK PLUMBING WASTE AND
VENT PLAN
1/8" = 1'-0"

GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO REVIEW GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- SEE PIPE MATERIAL AND INSULATION SCHEDULE ON P600 SHEET FOR PIPING AND INSULATION REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL EXISTING PIPING SIZES AND LOCATIONS.
- CONTRACTOR SHALL SAW CUT EXISTING SLAB FOR ROUTING OF ALL NEW BELOW SLAB PIPING. EXISTING TO REMAIN PIPING SHALL BE SCOPED TO DETERMINE ROUTING AND SIZE PRIOR TO SAW CUTTING.
- SEE DETAIL 2/P500 FOR TYPICAL INDIRECT WASTE PIPE TERMINATION DETAIL AT ALL FLOOR SINKS.

PLAN NOTES:

- EXTEND 3/4" INDIRECT WASTE FROM EVAPORATOR COILS EC-1 AND EC-2 IN NEW WALK-IN TO FLOOR SINK. SEE DETAIL 11/P500 FOR ADDITIONAL INFORMATION.
- EXTEND 3/4" INDIRECT WASTE FROM EVAPORATOR COILS EC-3 IN NEW WALK-IN TO FLOOR SINK. SEE DETAIL 11/P500 FOR ADDITIONAL INFORMATION.
- EXTEND INDIRECT WASTE FROM WORKTABLE PREP SINK DRAIN OUTLET TO FLOOR SINK.
- EXTEND INDIRECT WASTE PIPES FROM HOT FOOD WELLS TO FLOOR SINK.
- EXTEND INDIRECT WASTE PIPES FROM THREE COMPARTMENT SINK DRAIN OUTLETS TO FLOOR SINK.
- EXTEND INDIRECT WASTE PIPES FROM DISHWASHER AND PRE-RINSE SINK TO FLOOR SINK.
- EXTEND INDIRECT WASTE PIPES FROM COFFEE BREWER, SODA/ICE DISPENSER AND WATER STATION TO FLOOR SINK.
- EXTEND INDIRECT WASTE PIPES FROM BEVERAGE TRAIN TROUGH TO FLOOR SINK.
- EXTEND INDIRECT WASTE PIPES FROM ICE WELL, DRAIN BOARD AND DUMP SINK DRAIN OUTLET TO FLOOR SINK.
- SINK PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. SINK TO BE INSTALLED BY PLUMBING CONTRACTOR. ALL CONNECTIONS AND INSTALLATION OF COMPONENTS ASSOCIATED WITH SINK INSTALLED BY PLUMBING CONTRACTOR. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P600 FOR ADDITIONAL INFORMATION. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER.
- EXTEND INDIRECT WASTE PIPE FROM ICE MAKER TO FLOOR SINK.
- EXTEND INDIRECT WASTE PIPES FROM ICE WELL AND DRAIN BOARD TO FLOOR SINK.
- EXTEND INDIRECT WASTE PIPES FROM DRAIN BOARD, UNDERCOUNTER DISHWASHER AND DUMP SINK DRAIN OUTLET TO FLOOR SINK.
- SEE DETAIL 1/P500 FOR TYPICAL FLOOR CLEANOUT DETAIL.
- EXISTING MOP SINK TO REMAIN. CONNECT TO EXISTING SANITARY WASTE AND VENT PIPING AS SHOWN.
- EXTEND INDIRECT WASTE PIPES FROM BEER TAP DRAINBOARDS AND BEER GLASS RINSER DRAIN OUTLETS TO FLOOR SINK.
- INSTALL AIR ADMITTANCE VALVE BEHIND EQUIPMENT, IN RECESSED WALL BOX IN ACCESSIBLE LOCATION.



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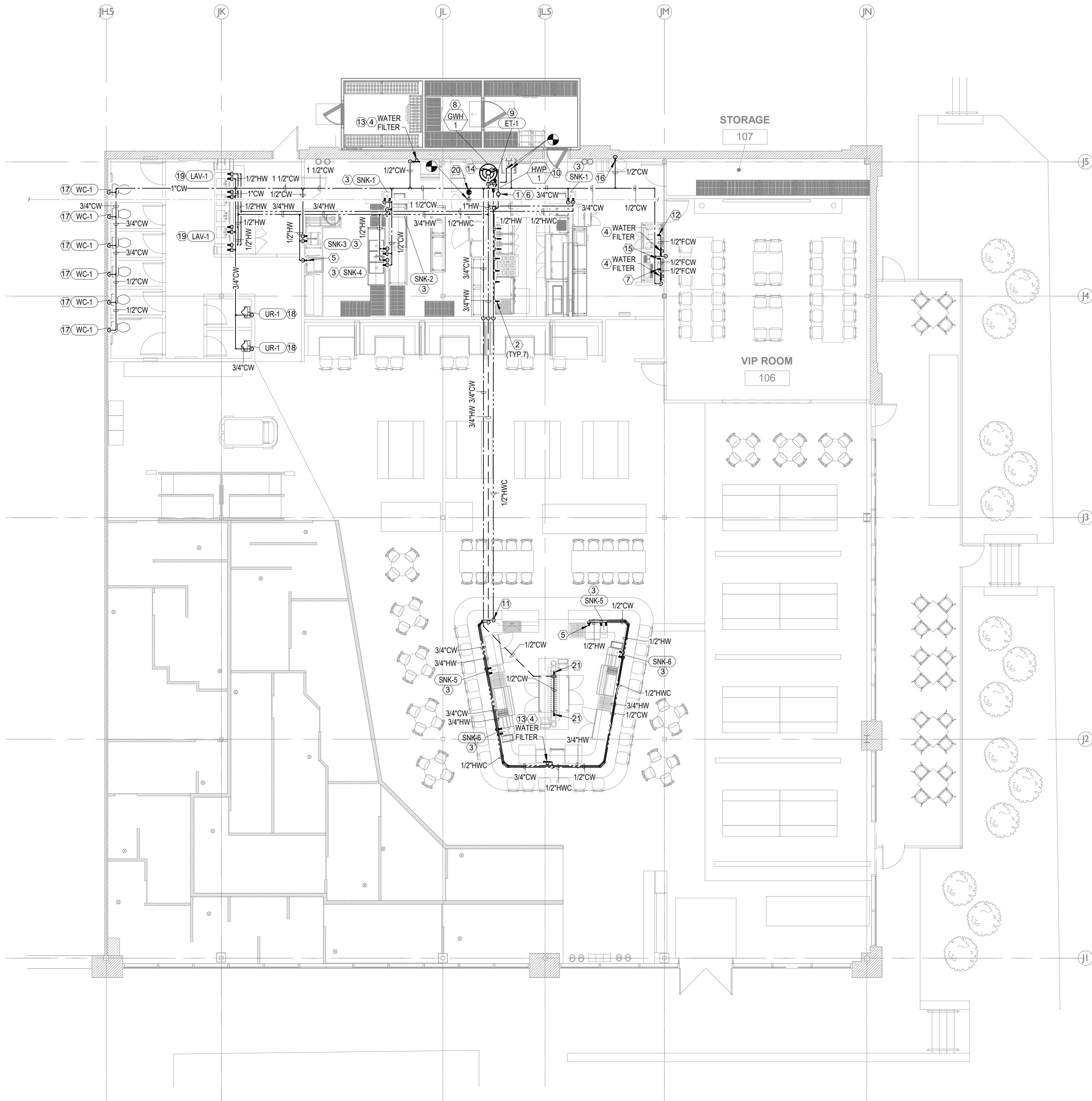
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PLUMBING WASTE
& VENT NEW
WORK PLAN

P100



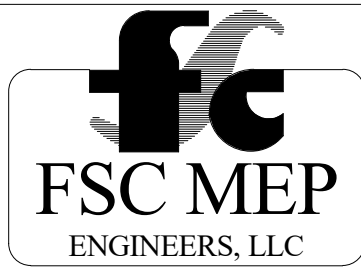
NEW WORK PLUMBING DOMESTIC
WATER PLAN
1/8" = 1'-0"

GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO REVIEW GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- SEE PIPE MATERIAL AND INSULATION SCHEDULE ON P600 SHEET FOR PIPING AND INSULATION REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL EXISTING PIPING SIZES AND LOCATIONS.
- CONTRACTOR SHALL SAW CUT EXISTING SLAB FOR ROUTING OF ALL NEW BELOW SLAB PIPING. EXISTING TO REMAIN PIPING SHALL BE SCOPED TO DETERMINE ROUTING AND SIZE PRIOR TO SAW CUTTING.

PLAN NOTES: (#)

- PROVIDE ELECTRIC SOLENOID VALVE SUITABLE FOR USE IN NATURAL GAS PIPING CONTROLLED BY HOOD FIRE SUPPRESSION SYSTEM. ELECTRICAL WIRING BY ELECTRICIAN. SEE SHEET EP100 FOR ADDITIONAL INFORMATION ON CIRCUITING. CONNECT TO FIRE SUPPRESSION SYSTEM PER MANUFACTURER'S SPECIFICATIONS.
- PROVIDE AND INSTALL DRIP LEG AND SHUT-OFF VALVE FOR EACH GAS KITCHEN APPLIANCE. INSTALL FLEXIBLE HOSE GAS CONNECTION SIZED PER MANUFACTURER'S SPECIFICATIONS ON KITCHEN EQUIPMENT. FLEXIBLE HOSE PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. CONNECT PER MANUFACTURER'S REQUIREMENTS.
- SINK AND FAUCET PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. SINK AND FAUCET TO BE INSTALLED BY PLUMBING CONTRACTOR. ALL CONNECTIONS AND INSTALLATION OF COMPONENTS ASSOCIATED WITH SINK INSTALLED BY PLUMBING CONTRACTOR. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P600 FOR ADDITIONAL INFORMATION. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER.
- WATER FILTER TO BE PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. WATER FILTER TO BE INSTALLED BY PLUMBING CONTRACTOR. FINAL CONNECTIONS AND COMPONENTS ASSOCIATED WITH WATER FILTER INSTALLED BY PLUMBING CONTRACTOR. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER.
- 1/2" HW CONNECTION WITH QUARTER-TURN SHUT-OFF VALVE AND ESCUTCHEON FOR DISHWASHER MACHINE. COORDINATE CONNECTION HEIGHT AFF WITH KITCHEN EQUIPMENT PLANS.
- PROVIDE AND INSTALL SOLENOID VALVE SUITABLE FOR NATURAL GAS APPLICATIONS IN EXPOSED PIPE DROP DOWN TO SERVE THE EQUIPMENT BELOW THE HOOD.
- PROVIDE 1/2" CW CONNECTION FOR SODA MACHINE WITH LEAD FREE BACKFLOW PREVENTER (WATTS MODEL SD-3 OR APPROVED EQUAL) FOR WATER LINES INLINE OF PIPE TO WATER CONNECTION, QUARTER-TURN SHUT-OFF VALVE AND ESCUTCHEON. COORDINATE WITH KITCHEN EQUIPMENT DRAWINGS FOR CONNECTION HEIGHT AFF.
- INSTALL GAS WATER HEATER PER DETAIL 6/P500.
- SEE DETAIL 4/P500 FOR TYPICAL EXPANSION TANK INSTALLATION DETAIL.
- SEE DETAIL 7/P500 FOR HOT WATER RECIRCULATION DETAIL.
- ROUTE 3/4" CW, 3/4" HW AND 1/2" HWR PIPING UP FROM BELOW GRADE INTO HALF HEIGHT BAR WALL.
- PROVIDE 1/2" FOW CONNECTION FOR COFFEE BREWER WITH LEAD FREE BACKFLOW PREVENTER (WATTS WATTS LFT7 OR APPROVED EQUAL) FOR WATER LINES INLINE OF PIPE TO WATER CONNECTION, QUARTER-TURN SHUT-OFF VALVE AND ESCUTCHEON. COORDINATE WITH KITCHEN EQUIPMENT DRAWINGS FOR CONNECTION HEIGHT AFF.
- PROVIDE 1/2" FOW CONNECTION FOR ICE MACHINE WITH LEAD FREE BACKFLOW PREVENTER (WATTS LFT7 OR APPROVED EQUAL) FOR WATER LINES INLINE OF PIPE TO WATER CONNECTION, QUARTER-TURN SHUT-OFF VALVE AND ESCUTCHEON. COORDINATE WITH KITCHEN EQUIPMENT DRAWINGS FOR CONNECTION HEIGHT AFF.
- CONNECT NATURAL GAS TO WATER HEATER GAS INLET. PROVIDE SHUT-OFF VALVE, UNION, TEE AND 6-INCH DIRT LEG.
- 1/2" CW CONNECTION TO WATER STATION FAUCET. COORDINATE CONNECTION HEIGHT AFF WITH KITCHEN EQUIPMENT PLANS.
- 1/2" CW CONNECTION WITH ESCUTCHEON FOR BAG-N-BOX WITH LEAD FREE REDUCED PRESSURE ASSEMBLY BACKFLOW PREVENTER (WATTS MODEL 009 OR APPROVED EQUAL). COORDINATE CONNECTION HEIGHT AFF WITH KITCHEN EQUIPMENT PLANS.
- PROVIDE 1/2" CW CONNECTION TO TANK-TYPE WATER CLOSET.
- PROVIDE 3/4" CW CONNECTION TO URINAL FLUSH VALVE.
- PROVIDE 1/2" CW AND HW CONNECTIONS TO LAVATORY FAUCETS.
- PROVIDE 1-1/2" TENANT WATER SUB-METER AND INSTALL ABOVE CEILING IN READILY ACCESSIBLE LOCATION. COORDINATE METER SPECIFICATION AND COMPATIBILITY WITH LANDLORD. SEE DETAIL 5/P500.
- PROVIDE 1/2" PIPE STUB-UP FROM BELOW SLAB WITH QUARTER-TURN SHUT-OFF VALVE FOR BEER CLASS RISER. COORDINATE WITH ARCHITECTURAL AND FOOD SERVICE PLANS FOR LOCATION OF STUB-UP WITHIN BAR.



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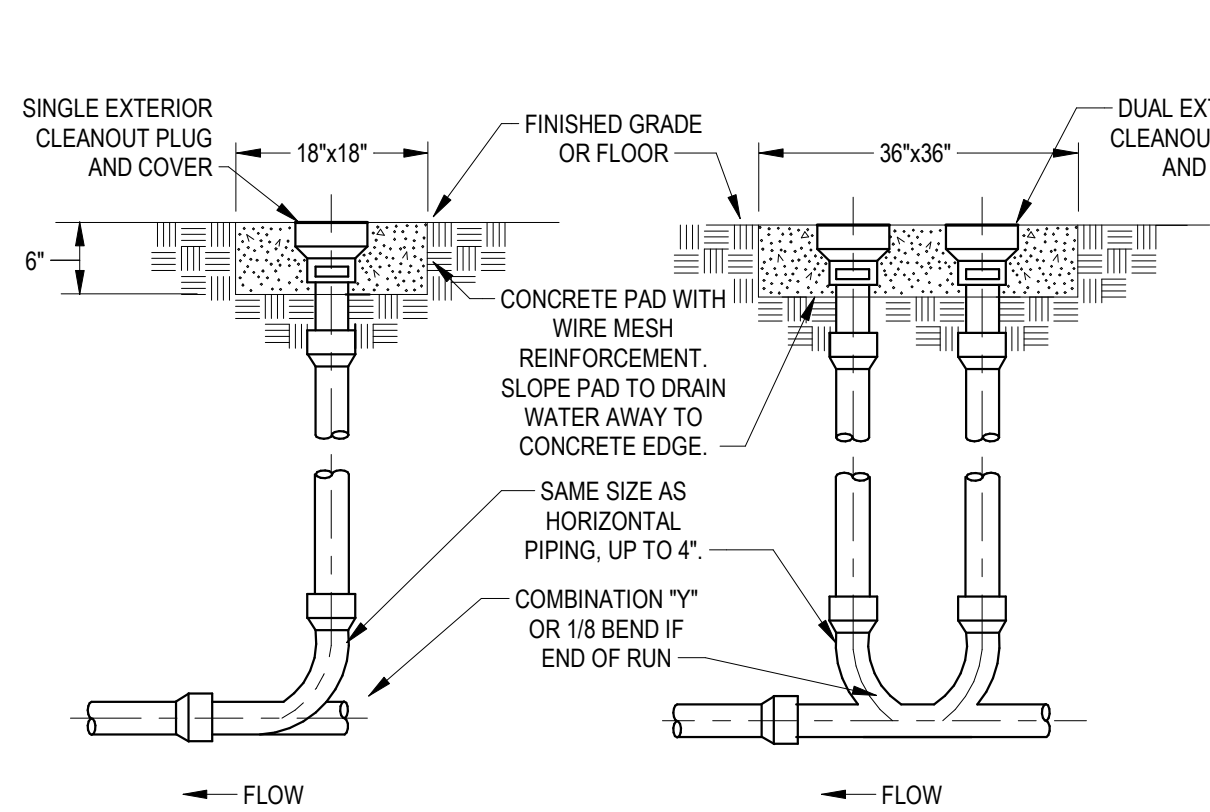
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PLUMBING
DOMESTIC WATER
AND GAS NEW
WORK PLAN

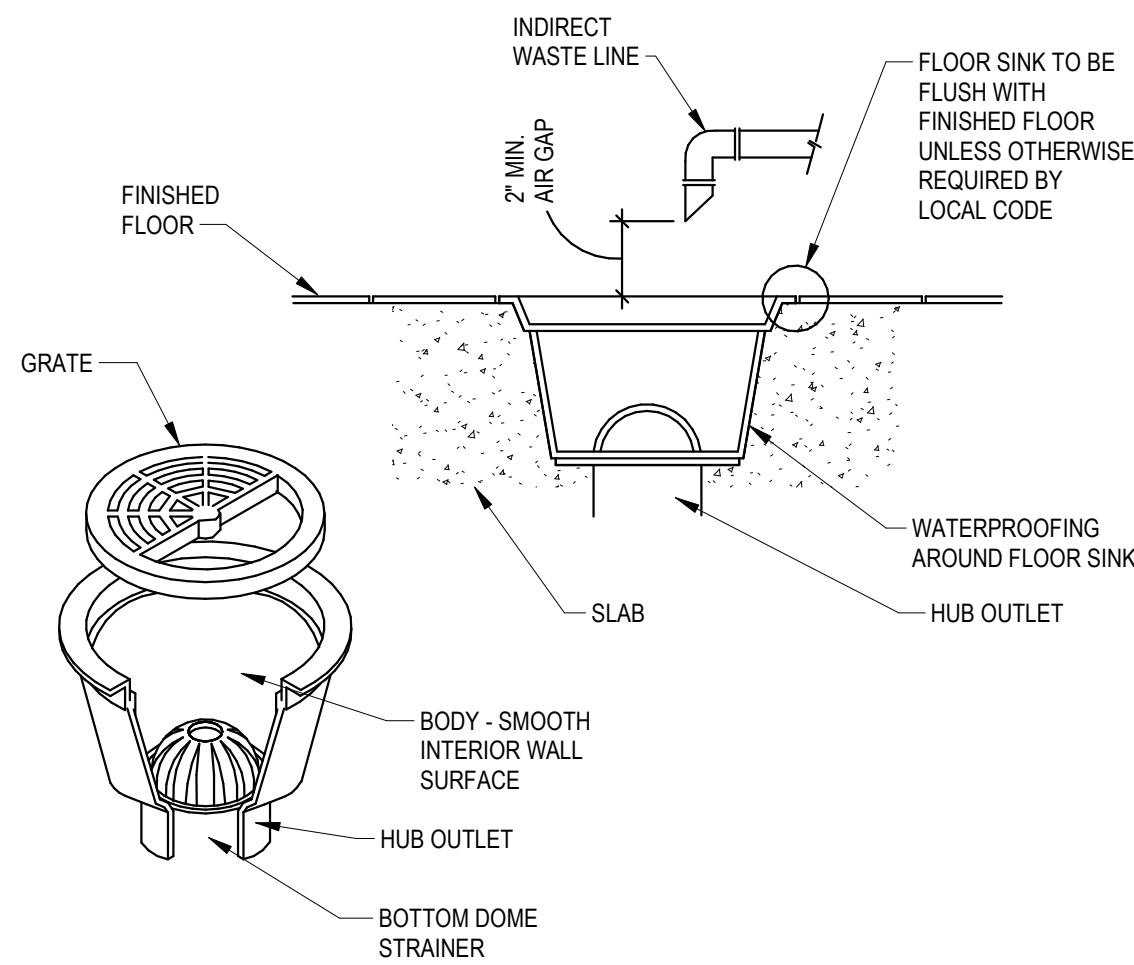
P101



INTERIOR CLEANOUT SIMILAR, EXCEPT SET IN FLOOR SLAB WITH ADJUSTABLE TOP TO MATCH FINISHED FLOOR COVERING. PROVIDE MEMBRANE CLAMP WHEN INSTALLED ABOVE GRADE LEVEL.

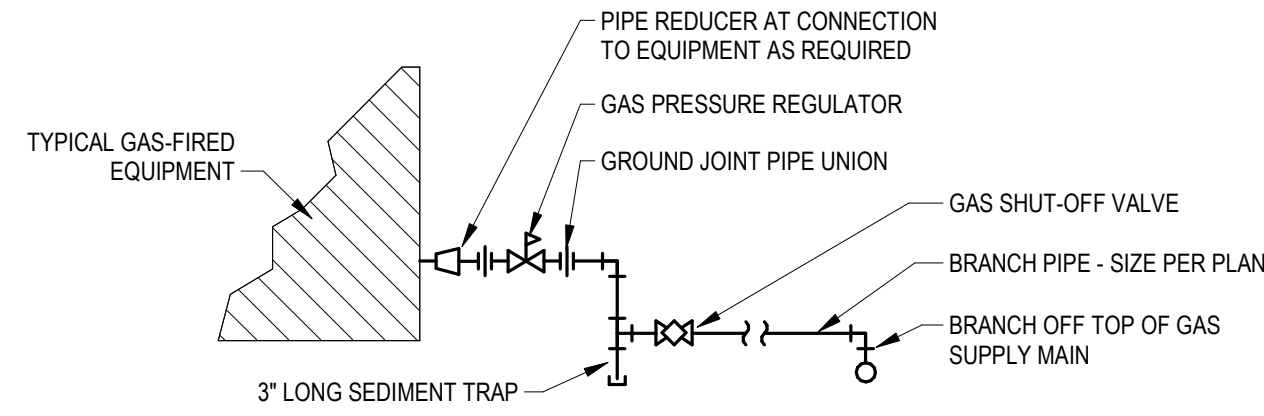
1 SANITARY WASTE FLOOR CLEAN-OUT

DETAIL
NOT TO SCALE



2 INDIRECT WASTE TERMINATION

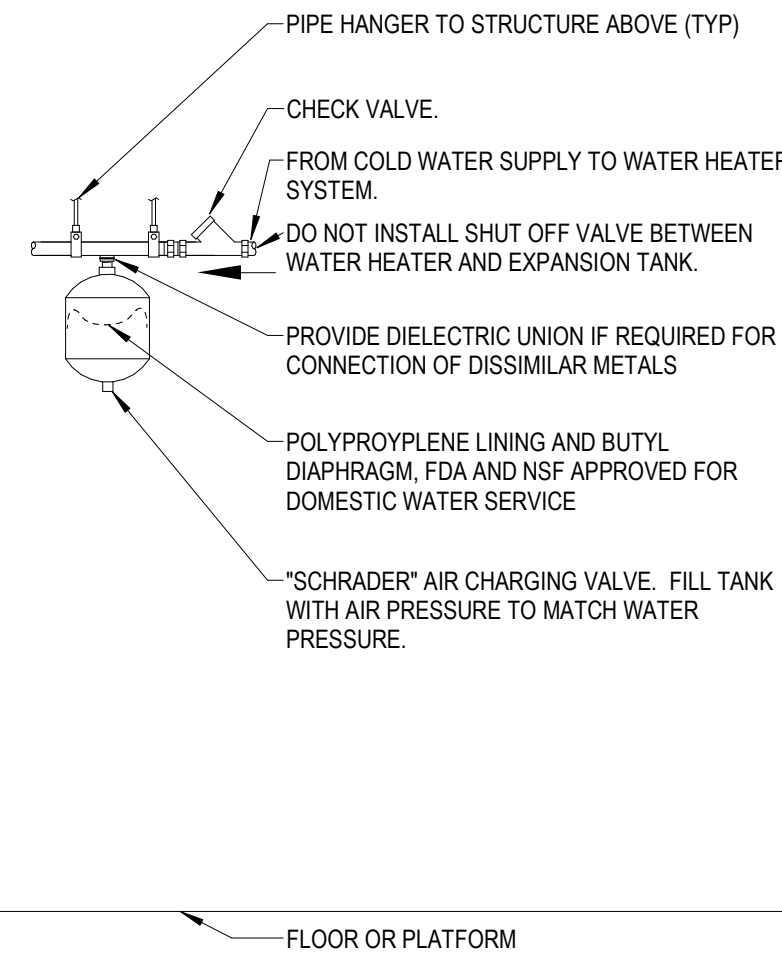
NOT TO SCALE



PIPING ARRANGEMENT SHOWN IS SCHEMATIC. PROVIDE SHUT-OFF VALVE AND NATURAL GAS REGULATOR AT EACH PIECE OF GAS CONSUMING EQUIPMENT. CONTRACTOR SHALL SELECT REGULATOR BASED ON BUILDING DESIGN NATURAL GAS DELIVERY PRESSURE AND OPERATING PRESSURE RANGE OF ACTUAL EQUIPMENT FURNISHED.

3 NATURAL GAS CONNECTION DIAGRAM

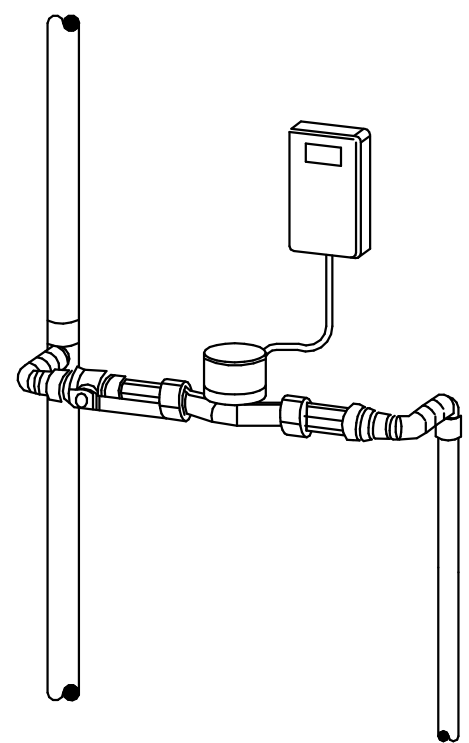
NOT TO SCALE



PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS, EQUIPMENT FURNISHED. REFER TO SPECIFICATIONS, SCHEDULES AND NOTES FOR ADDITIONAL INFORMATION. REFERENCE SCHEDULES TO CONFIRM SUSPENDED OR BASE MOUNTING INSTALLATION. BRANCH PIPING SHALL BE SAME SIZE AS TANK FITTING. VERIFY PROPER OPERATION WHEN INSTALLED.

4 THERMAL EXPANSION TANK DETAIL

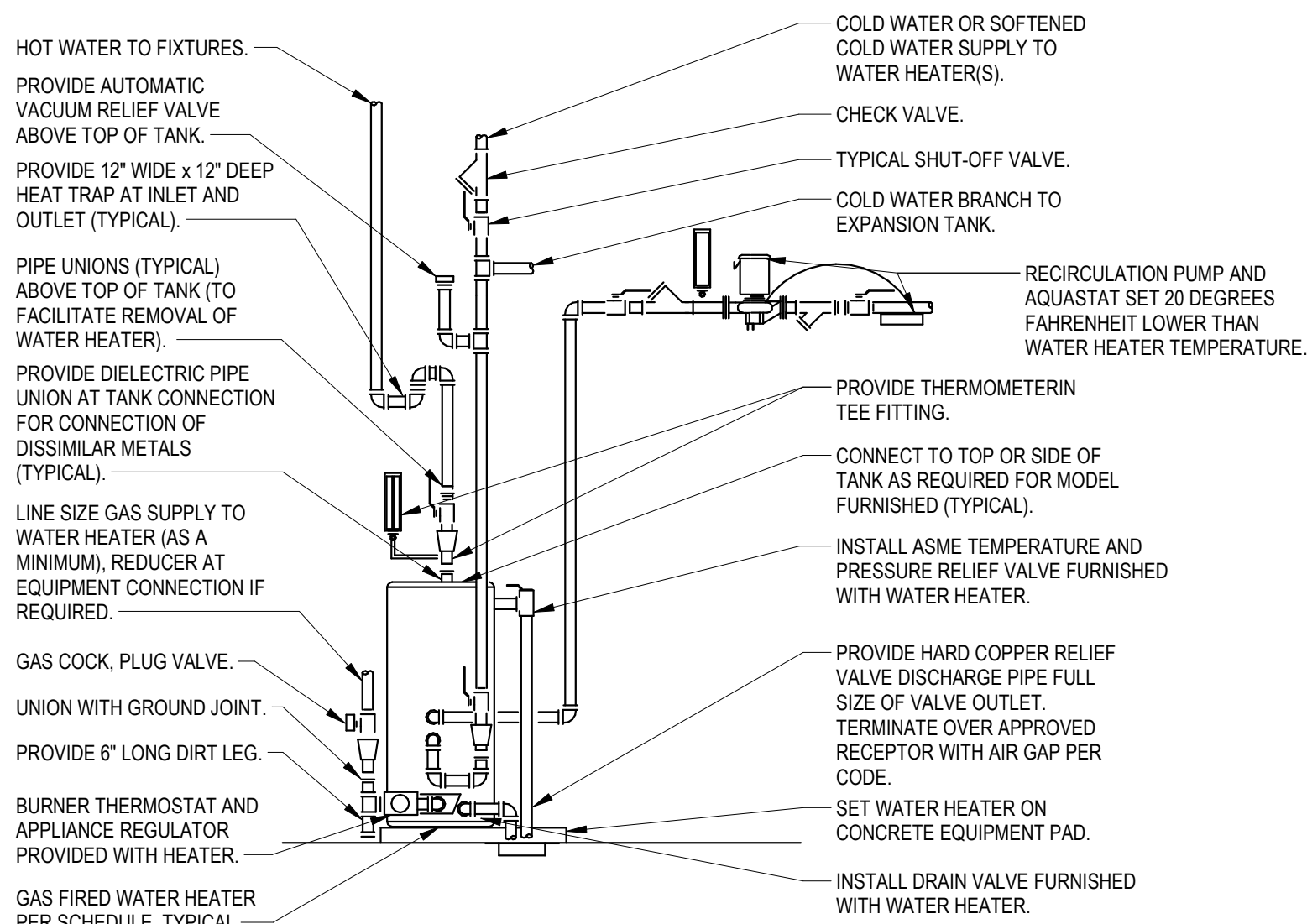
NOT TO SCALE



1. CONTRACTOR TO INSTALL VENDOR FURNISHED IDLER TUBES AND WATER METER COUPLINGS DURING PLUMBING ROUGH-IN.
2. CONTRACTOR TO INSTALL VENDOR FURNISHED WATER METER AFTER PIPES HAVE BEEN FLUSHED.
3. MOUNT METER IN DIRECTION SHOWN.
4. DO NOT CARRY OR SUPPORT METER BY CABLE.
5. METERS MUST REMAIN ACCESSIBLE FOR MANUAL READING, REPAIR AND REPLACEMENT.

5 DOMESTIC WATER SUBMETERING

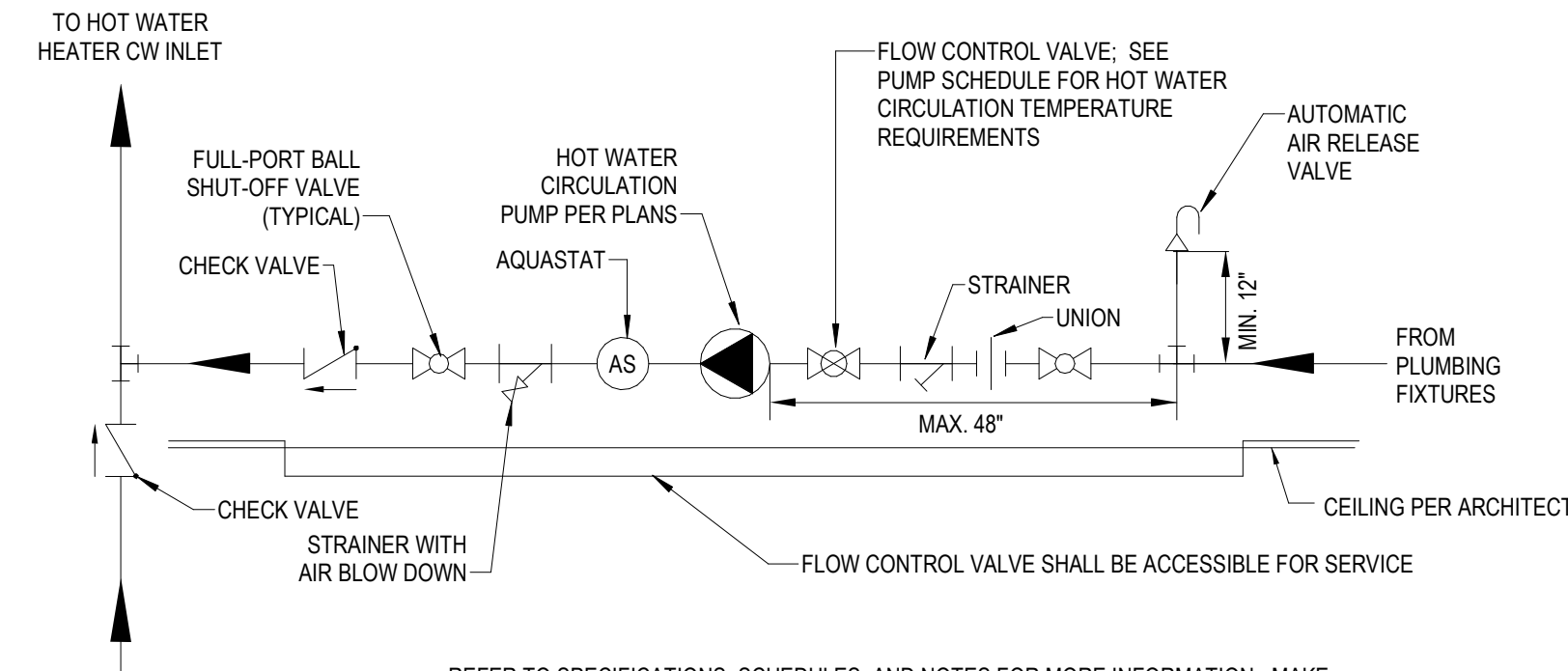
NOT TO SCALE



PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS, EQUIPMENT FURNISHED. REFER TO SPECIFICATIONS, SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION. PROVIDE SEISMIC STRAPS OR BRACING. REFERENCE ELECTRICAL PLANS FOR POWER AND MEANS OF DISCONNECT. WATER HEATER IS A SEALED COMBUSTION AIR UNIT. COORDINATE OUTSIDE AIR INTAKE/FLUE EXHAUST PIPING WITH TERMINATION KITS WITH MECHANICAL CONTRACTOR.

6 GAS WATER HEATER1

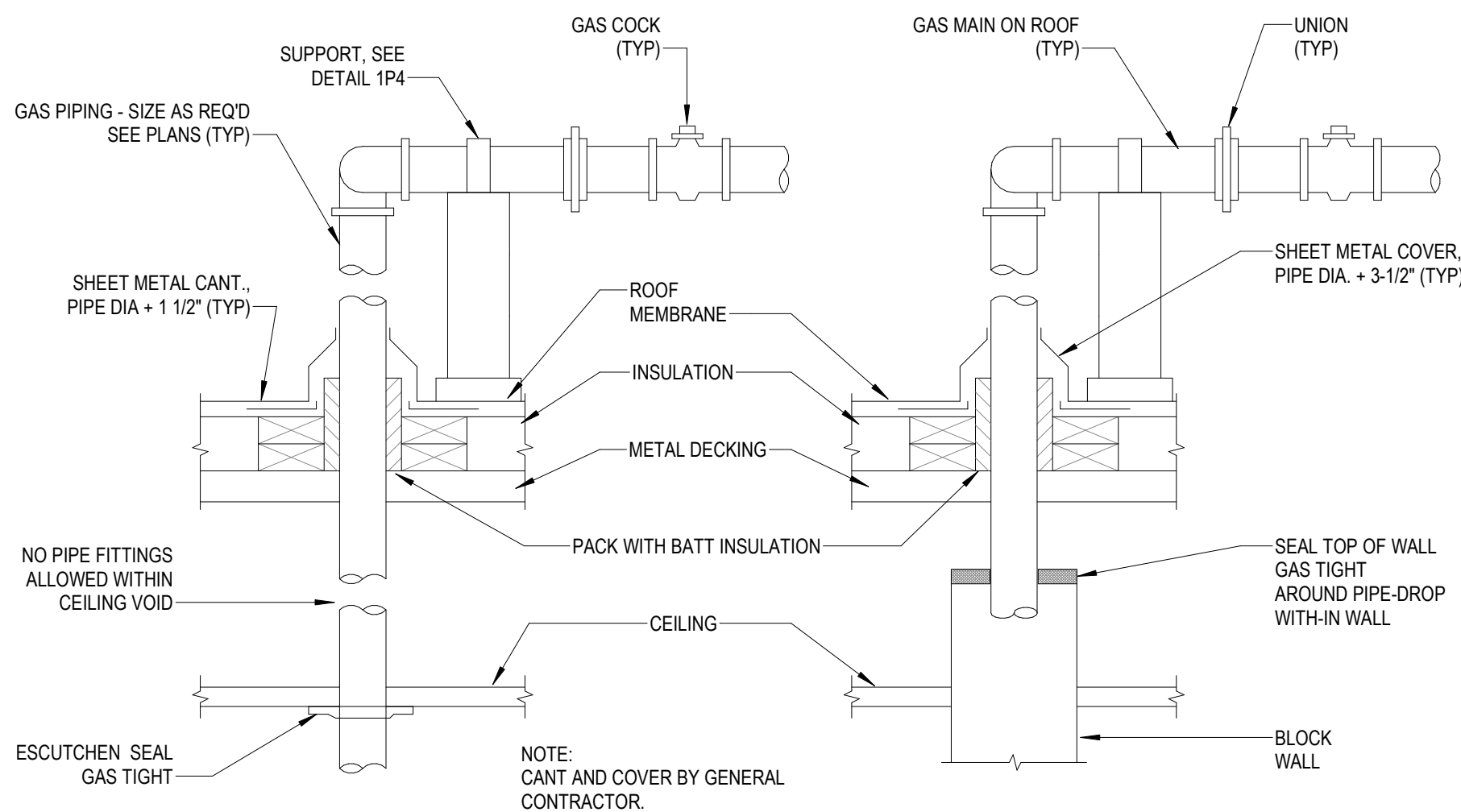
NOT TO SCALE



REFER TO SPECIFICATIONS, SCHEDULES, AND NOTES FOR MORE INFORMATION. MAKE CONNECTIONS AND PROVIDE INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. ARRANGEMENT SHOWN IS SCHEMATIC. PROVIDE REDUCERS AND ADAPTERS AS REQUIRED.

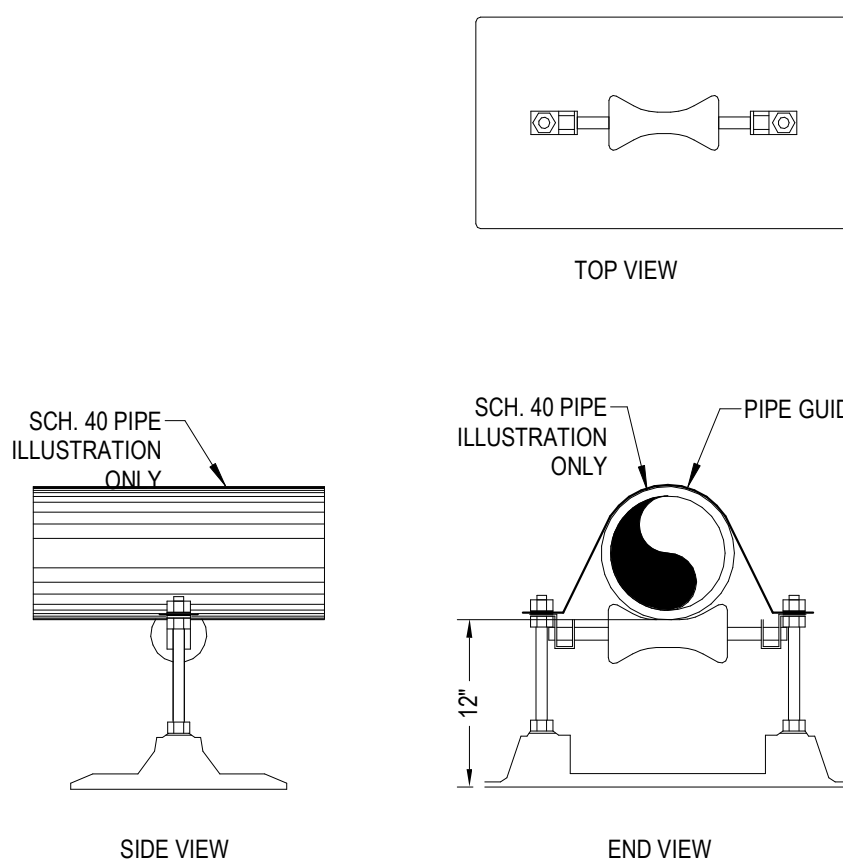
7 HOT WATER RECIRCULATION PUMP

DETAIL
NOT TO SCALE



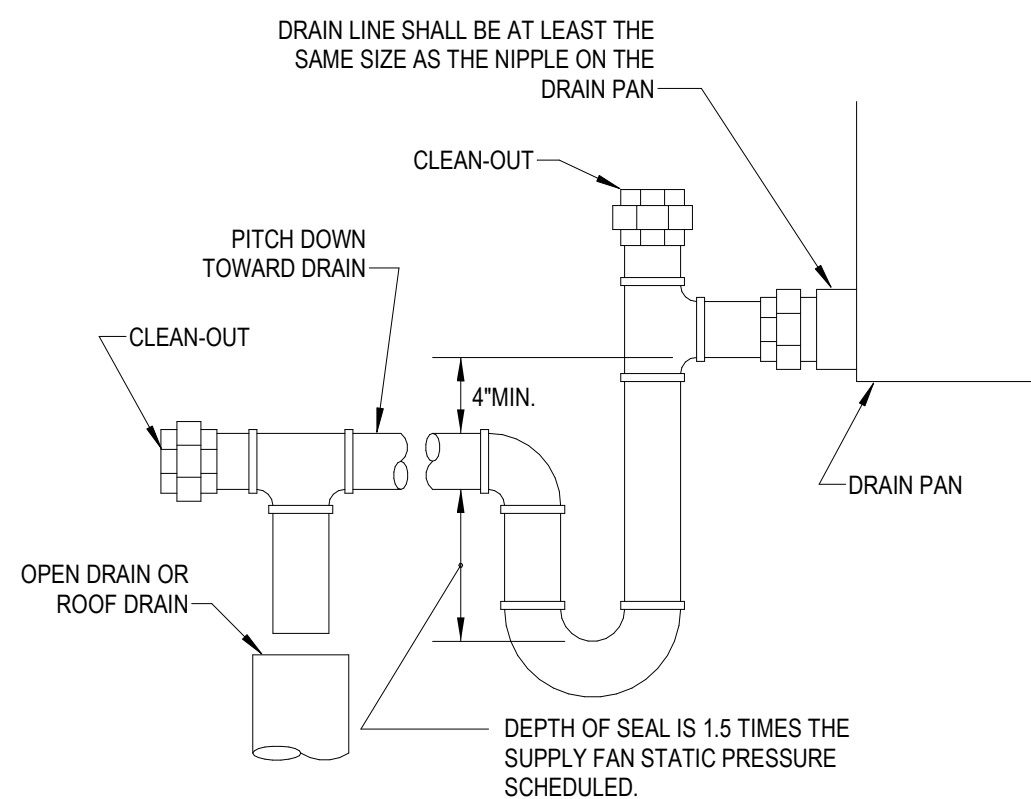
8 GAS PIPE ROOF PENETRATION DETAIL

NOT TO SCALE



9 ROOF PIPE SUPPORT DETAIL

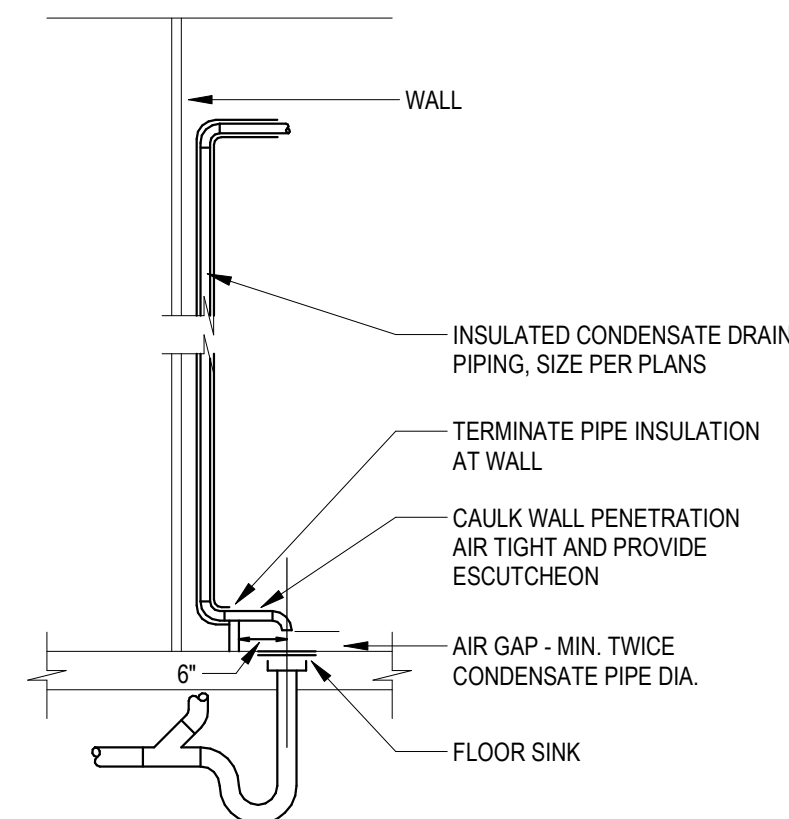
NOT TO SCALE



NOTE: UNLESS NOTED OTHERWISE, DRAIN PIPING SHALL BE COPPER

10 ROOFTOP UNIT CONDENSATE DRAIN TRAP

NOT TO SCALE



11 CONDENSATE DRAIN / INDIRECT DRAIN DETAIL

NOT TO SCALE

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PLUMBING FIXTURE SCHEDULE

FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACTOR. ANY CONFLICTS BETWEEN MODEL NUMBER AND DESCRIPTION THE DESCRIPTION SHALL PREVAIL. SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION AND INSTALLATION REQUIREMENTS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE PLUMBING FIXTURE MOUNTING HEIGHTS.						
MARK	DESCRIPTION	PIPE SIZE CONNECTION				
		COLD WATER	HOT WATER	MIXED WATER	WASTE	VENT
SNK-1	HAND WASH SINK: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. FAUCET: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. TRIM: MANUFACTURED BY McQUIRE OR APPROVED EQUAL SHALL BE: 1) BASKET STRAINER (INCLUDED WITH SINK), 2) LEAD FREE QUARTER TURN BALL VALVE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, 3) CAST BODY P-TRAP WITH CLEANOUT - 1-1/2" INLET TO 1-1/2" OUTLET 17 GAUGE WASTE CHROME PLATED BRASS WASTE ARM AND ESCUTCHEON, (PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR), PROVIDE WITH TMV-1.	1/2"	1/2"	1/2"	1-1/2"	1-1/2"
SNK-2	WORK TABLE WITH INTEGRAL SINK: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. FAUCET: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. TRIM: PROVIDE 1) TWIST HANDLE LEVER WASTE FOR 3-1/2" INDUSTRY STANDARD SINK OPENING, 2) LEAD FREE QUARTER TURN BALL VALVE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, AND 3) BASKET STRAINER WITH INCLUDED ADAPTER FOR EITHER 2" OR 1-1/2" DRAIN OUTLET. PROVIDE KROWNE ROYAL SERIES TWIST WASTE DRAIN WITH 1-1/4" OVERFLOW OUTLET.	1/2"	1/2"	--	1-1/2" INDIRECT WASTE	--
SNK-3	SOILED DISH TABLE WITH INTEGRAL SINK: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. FAUCET: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. TRIM: PROVIDE 1) TWIST HANDLE LEVER WASTE FOR 3-1/2" INDUSTRY STANDARD SINK OPENING, 2) LEAD FREE QUARTER TURN BALL VALVE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, AND 3) BASKET STRAINER WITH INCLUDED ADAPTER FOR EITHER 2" OR 1-1/2" DRAIN OUTLET. PROVIDE KROWNE ROYAL SERIES TWIST WASTE DRAIN WITH 1-1/4" OVERFLOW OUTLET.	1/2"	1/2"	--	1-1/2" INDIRECT WASTE	--
SNK-4	THREE-COMPARTMENT SINK: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. FAUCET: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. TRIM: PROVIDE 1) TWIST HANDLE LEVER WASTE FOR 3-1/2" INDUSTRY STANDARD SINK OPENING, 2) LEAD FREE QUARTER TURN BALL VALVE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, AND 3) BASKET STRAINER WITH INCLUDED ADAPTER FOR EITHER 2" OR 1-1/2" DRAIN OUTLET. PROVIDE KROWNE ROYAL SERIES TWIST WASTE DRAIN WITH 1-1/4" OVERFLOW OUTLET FOR EACH COMPARTMENT.	1/2"	1/2"	--	(3) 1-1/2" INDIRECT WASTE	--
SNK-5	HAND WASH BAR SINK: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. FAUCET: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. TRIM: MANUFACTURED BY McQUIRE OR APPROVED EQUAL SHALL BE: 1) BASKET STRAINER (INCLUDED WITH SINK), 2) LEAD FREE QUARTER TURN BALL VALVE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, 3) CAST BODY P-TRAP WITH CLEANOUT - 1-1/2" INLET TO 1-1/2" OUTLET 17 GAUGE WASTE CHROME PLATED BRASS WASTE ARM AND ESCUTCHEON, (PROVIDED AND INSTALLED BY PLUMBING...	1/2"	1/2"	1/2"	1-1/2"	1-1/2"
SNK-6	BAR DUMP SINK: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. FAUCET: PROVIDED BY KEC VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. TRIM: PROVIDE 1) TWIST HANDLE LEVER WASTE FOR 3-1/2" INDUSTRY STANDARD SINK OPENING, 2) LEAD FREE QUARTER TURN BALL VALVE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, AND 3) BASKET STRAINER WITH INCLUDED ADAPTER FOR EITHER 2" OR 1-1/2" DRAIN OUTLET. PROVIDE KROWNE ROYAL SERIES TWIST WASTE DRAIN WITH 1-1/4" OVERFLOW OUTLET.	1/2"	1/2"	--	1-1/2" INDIRECT WASTE	--
GI-1	GREASE INTERCEPTOR: SCHIER GB-500 500-GALLON BELOW GRADE GREASE INTERCEPTOR (OR APPROVED EQUAL), CONSTRUCTED OF HIGH DENSITY POLYETHYLENE WITH MINIMUM 7/16" WALL THICKNESS. INTERCEPTOR TO BE RATED FOR BELOW GRADE INSTALLATION WITH FIELD ADJUSTABLE RISERS. INTERCEPTOR SHALL HAVE FLOW RATE OF 100 GPM WITH A GREASE CAPACITY OF 3,048 POUNDS AT 100 GPM. COVERS SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINIMUM 16,000 POUND WEIGHT CAPACITY.	--	--	--	4"	3"
TMV-1	THERMOSTATIC MIXING VALVE: MANUFACTURED BY LEONARD OR APPROVED EQUAL SHALL BE: LEAD FREE BRASS BODY, COPPER ENCAPSULATED THERMOSTAT ASSEMBLY WITH POLYMER THERMOPLASTIC SHUTTLE, STAINLESS STEEL SPRINGS, BUNA-N O-RINGS, INTEGRAL CHECKS, COLD WATER BY-PASS, MOUNTING BRACKET, VANDAL RESISTANT LOCKING TEMPERATURE ADJUSTMENT CAP, ASSE 1070 CERTIFIED, CAPABLE OF 1.7 GPM WITH A 5 PSI PRESSURE LOSS, CAPABLE OF 2.3 GPM WITH A 10 PSI PRESSURE LOSS AND A MINIMUM FLOW RATE OF 0.25 GPM. 3/8" INLET AND OUTLET CAN BE CONFIGURED TO SERVE EITHER A TWO HANDLE LAVATORY SINK OR SINGLE INLET SENSOR FAUCET. TEMPERATURE ADJUSTMENT RANGE FROM 90 TO 140 DEGREES, UNIT IS NOT FACTORY PRESET CONTRACTOR SHALL SET OUTLET TEMPERATURE TO 105 DEGREES FAHRENHEIT. MOUNT BELOW THE PLUMBING FIXTURE WHERE INDICATED ON PLAN(S).	1/2"	1/2"	1/2"	--	--
LAV-1	UNDERMOUNT COUNTERTOP LAVATORY: MANUFACTURER BY BADELOFT: SHALL BE 19.7"x 16.1" UNDERMOUNT, 5.3" DEEP STONE RESIN COUNTERTOP LAVATORY. UNDERMOUNTED TO COUNTERTOP WITH MOUNTING CLIPS OR U-CHANNEL WITH 2" DRAIN OPENING. UNDERNEATH SIDE FULLY COATED FOR SOUND DAMPENING AND REDUCTION OF CONDENSATION. FAUCET: MANUFACTURED BY VIGO SHALL BE: NOMA SINGLE-HOLE BATHROOM FAUCET VGS1009 "LEAD FREE" MANUALLY OPERATED, ADA COMPLIANT, DECK-MOUNTED MIXING FAUCET, BLACK FINISH, 0.5 GPM VANDAL-RESISTANT LAMINAR FLOW OUTLET AND WATER SUPPLY CONNECTION WITH 24" LONG FLEXIBLE STAINLESS STEEL HIGH-PRESSURE BRAIDED HOSE FOR COMPRESSION FITTINGS AND STRAINER, PROVIDED WITH FILTERED SOLENOID VALVE WITH SERVICABLE STRAINER FILTER, AND DECK-MOUNTING HARDWARE KIT. PROVIDE WITH TMV-1. TRIM: LEAD FREE QUARTER TURN BALL VALVE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, BRUSHED NICKEL CAST ROUND BOTTLE DECORATIVE P-TRAP (HANE BATH OR APPROVED EQUAL) - (1-1/4" INLET TO 1-1/2" OUTLET) 17 GAUGE WASTE CHROME PLATED BRASS WASTE ARM AND ESCUTCHEON. INSULATE EXPOSED WASTE AND WATER LINES PER 2009 ANSI A117.1 - 606.6.	1/2"	1/2"	--	1-1/2"	1-1/2"
WC-1	WATER CLOSET, WALL-MOUNTED, FLUSH VALVE: MANUFACTURED BY ZURN OR APPROVED EQUAL. WHITE VITREOUS CHINA FIXTURE, WALL HUNG, ELONGATED BOWL ONLY, 1.28 GALLONS PER FLUSH WITH DIRECT-FED SIPHON JET ACTION. 1-1/2" TOP SPUD CONNECTION. WATER CLOSET WITH FLUSH VALVE SHALL HAVE A MAP (MAXIMUM PERFORMANCE) RATING OF 800 GRAMS OR GREATER. REFERENCE ARCHITECTURAL PLAN FOR MOUNTING HEIGHTS TO MEET STANDARD AND ADA REQUIREMENTS. VALVE: MANUFACTURED BY ZURN OR APPROVED EQUAL SHALL BE: 1-1/2" TOP SPUD CONNECTION, 1.28 GPF, FLUSH VALVE, AUTOMATIC INFRARED SENSOR ACTIVATED, FILTERED PISTON OPERATOR AND MANUAL OVERRIDE BUTTON. SENSOR TO BE HARD-WIRED. TRIM: MANUFACTURED BY CHURCH OR APPROVED EQUAL: WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, PROVIDE SUITABLE FIXTURE CARRIER. ELECTRICAL REQUIREMENTS: 7.6VDC PLUG-IN ACA POWER SUPPLY FOR UP TO 4 VALVES.	1-1/2"	--	--	4"	2"
UR-1	URINAL, ADA COMPLIANT: URINAL, ADA COMPLIANT: MANUFACTURED BY ZURN OR APPROVED EQUAL SHALL BE: WHITE VITREOUS CHINA HIGH EFFICIENCY URINAL SYSTEM WITH WITH FLUSHING RIM, FLUSHING AT 0.125 GALLON PER FLUSH (GPF), 3/4" TOP SPUD FLUSH VALVE, 2" THREADED OUTLET AND WASHOUT FLUSH ACTION. REFERENCE ARCHITECTURAL PLAN FOR MOUNTING HEIGHTS TO MEET STANDARD AND ADA REQUIREMENTS. VALVE: MANUFACTURED BY ZURN OR APPROVED EQUAL SHALL BE: 0.125 GPF, 3/4" TOP INLET SPUD, FLUSH VALVE, AUTOMATIC INFRARED SENSOR ACTIVATED, MANUAL OVERRIDE BUTTON, FILTERED PISTON OPERATOR, MANUAL OVERRIDE BUTTON, MANUFACTURED ON THE CENTER OF THE LEFT SIDE OF THE FLUSH VALVE. SENSOR TO BE HARD-WIRED. TRIM: SUITABLE CARRIER WITH STANCHIONS (TUBULAR LEGS OR BRACES) TO FLOOR.. ELECTRICAL REQUIREMENTS: 7.6VDC PLUG-IN ACA POWER SUPPLY FOR UP TO 4 VALVES.	1"	--	--	2"	2"

PLUMBING FIXTURE SCHEDULE

FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACTOR. IF THERE ARE ANY CONFLICTS BETWEEN MODEL NUMBER AND DESCRIPTION, THE DESCRIPTION SHALL PREVAIL. SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION AND INSTALLATION REQUIREMENTS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE PLUMBING FIXTURE MOUNTING HEIGHTS.						
MARK	DESCRIPTION	PIPE SIZE CONNECTION				
		COLD WATER	HOT WATER	MIXED WATER	WASTE	VENT
ET-1	TANK, EXPANSION: REFERENCE PLUMBING SCHEDULES ON SHEET P600.	--	--	--	--	--
WHA-XX	WATER HAMMER ARRESTOR: MANUFACTURED BY SIOUX CHIEF OR APPROVED EQUAL SHALL BE: LEAD FREE, SIZED BY PDI STANDARDS, SIZES "A" THROUGH "F". UNIT SHALL BE ASSE 1010 CERTIFIED TO PROVIDE CONTINUOUS PROTECTION, WITHOUT MAINTENANCE ALLOWING INSTALLATION WITHOUT ACCESS PANEL. UNIT SHALL HAVE NO-LEAD COMPONENTS AND BE CALIFORNIA AB 1953 COMPLIANT. THE X OF WHA-x INDICATES THE SIZE OF THE WATER HAMMER ARRESTER REQUIRED AT A SPECIFIC BRANCH PIPING. AIR CHAMBERS ARE NOT AN APPROVED EQUAL.	PER PLAN	PER PLAN	--	--	--
TSP-1	TRAP SEAL PROTECTOR: MANUFACTURED BY SIOUX CHIEF OR APPROVED EQUAL SHALL BE: TRAP PRIMER, CORROSION RESISTANT BRASS BODY, "O" RING SEALS, 1/2" INLET AND OUTLET, AND INTEGRAL VACUUM BREAKER. INSTALL THE VALVE AT A MINIMUM OF 12" ABOVE FINISHED FLOOR FROM TOP OF COLD WATER SUPPLY LINE. PROVIDE WITH DISTRIBUTION FOR TWO, THREE, OR FOUR DRAIN CONNECTIONS AS REQUIRED OR SHOWN ON PLANS. CONNECTION SHALL BE MADE FROM TOP OF A COLD WATER SUPPLY PIPE 1-1/2 INCH IN DIAMETER OR LESS NEAR PLUMBING FIXTURES TO INSURE FULL 10 PSI PIPRESSURE DROP. UNIT SHALL BE UPC/IAPMO LISTED AND ASSE CERTIFIED TO ASSE 1018 STANDARD.	1/2"	--	--	--	--
FD-1	FLOOR DRAIN MANUFACTURED BY ZURN OR APPROVED EQUAL MANUFACTURER SHALL BE: CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, LIGHT DUTY ADJUSTABLE ROUND NICKEL BRONZE STRAINER. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS. STRAINER SIZE SHALL BE 6" OR AS SHOWN ON PLANS. PROVIDE TSP-01, TRAP SEAL PROTECTOR WITH DRAIN. LOAD RATING CLASSIFICATIONS: GRATES AND TOP RIMS SHALL BE TO MEET SAFE LOAD OF: LIGHT DUTY, UNDER 2,000 POUNDS. FLOOR DRAIN TRAP SEALER, SHALL BE ASSE 1072 APPROVED, SIZED PER DRAIN OUTLET WITH PERFORMANCE THAT WILL NOT DETERIORATE IN AREAS OF HEAVY GREASE OR WAXED FLOORS. UNIT SHALL HAVE A TEN YEAR WARRANTY. (UNIT SHALL BE ICC-ES LISTED: PMG-1070 AND IAPMO LISTED: C-4165).. LOAD RATING CLASSIFICATIONS: GRATES AND TOP RIMS SHALL BE TO MEET SAFE LOAD OF: HEAVY DUTY, GREATER THAN 5,000 BUT UNDER 7,499 POUNDS..	--	--	--	3"	2"
FS-1	DRAIN, FLOOR SINK: MANUFACTURED BY ZURN OR APPROVED EQUAL MANUFACTURER SHALL BE: CAST IRON BODY WITH WHITE A.R.E. INTERIOR, 12"x12"x12" SQUARE, WITH SEEPAGE FLANGE AND MEMBRANE FLASHING CLAMP, SQUARE, HEAVY-DUTY GRATE WITH 1/2" SLOTTED OPENINGS, ALUMINUM ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER AND BOTTOM OUTLET. PROVIDE GRATE WITH 3" CENTER OPENING. PROVIDE TRAP SEAL PROTECTION MANUFACTURED BY SURE SEALOR APPROVED EQUAL, IN-LINE FLOOR DRAIN TRAP SEALER, SHALL BE ASSE 1072 APPROVED, SIZED PER DRAIN OUTLET WITH PERFORMANCE THAT WILL NOT DETERIORATE IN AREAS OF HEAVY GREASE OR WAXED FLOORS. UNIT SHALL HAVE A TEN YEAR WARRANTY. (UNIT SHALL BE ICC-ES LISTED: PMG-1070 AND IAPMO LISTED: C-4165).. LOAD RATING CLASSIFICATIONS: GRATES AND TOP RIMS SHALL BE TO MEET SAFE LOAD OF: HEAVY DUTY, GREATER THAN 5,000 BUT UNDER 7,499 POUNDS..	--	--	--	3"	2"
AAV-1	AIR ADMITTANCE VALVE: MANUFACTURER BY PROFLO OR APPROVED EQUAL SHALL BE: AAV SHALL BE OPEN AT -0.01 PSI AND BE SEALED AT 0PSO AND ABOVE. SHALL CONTAIN SCREENING ON AIR INLETS TO GUARD THE SEAL, PROTECTIVE RUBBER GRIPS FOR INSTALLATION AND TO KEEP VALVE FREE FROM DEBRIS. PROVIDE WITH 1-1/2" OR 2" PVC ADAPTER PER THE VENT SIZED INDICATED ON THE DRAWINGS. INSTALL VALVE SO IT IS LOCATED A MINIMUM OF 4" ABOVE THE WEIR OF THE FIXTURE TRAP FOR SINGLE FIXTURE AND 6" ABOVE THE FLOOR LEVEL OF HIGHEST FIXTURE FOR STACK VENTING. INSTALL VALVE IN ACCESSIBLE LOCATION.	--	--	--	--	(SEE DWGS)
FCO-1	CLEANOUT, FLOOR: MANUFACTURED BY ZURN OR APPROVED EQUAL SHALL BE: HEAVY DUTY ADJUSTABLE FLOOR CLEANOUT WITH CAST IRON BODY, GAS AND WATER TIGHT ABS TAPERED THREADED PLUG AND ADJUSTABLE ROUND, SECURED, SCORIATED HEAVY DUTY CAST IRON TOP. PROVIDE WITH PUSH ON CONNECTION AND FLASHING FLANGE WITH CLAMPING COLLAR OR ANCHOR FLANGE FOR GROUND LEVEL INSTALLATIONS. PROVIDE STAINLESS STEEL MARKER FOR INSTALLATION IN CARPETED FLOOR AREA(S); PROVIDE RECESSED TOP FOR INSTALLATION IN TILED FLOOR AREA(S), TERRAZZO AND SIMILAR FLOOR AREA(S). PROVIDE POLISHED NICKEL BRONZE LIGHT DUTY TOP ONLY IN PUBLIC AREAS, PROVIDE HEAVY DUTY TOP FOR INSTALLATION IN CONCRETE FLOORS.	--	--	--	4"	--
ECO-1	CLEANOUT, DOUBLE EXTERIOR: MANUFACTURED BY ZURN OR APPROVED EQUAL SHALL BE: (2) DUCO CAST IRON DOUBLE FLANGED HOUSING WITH HEAVY DUTY SECURED SCORIATED CAST IRON COVER WITH LIFTING DEVICE AND CLEANOUT BODY WITH SOLID GASKETED SEAL AND PUSH-ON JOINT. TO BE INSTALLED IN CONJUNCTION WITH TWO WAY SANITARY PIPING FITTING COMMONLY CALLED "MEMPHIS CLEANOUT". LOAD RATING CLASSIFICATIONS: GRATES AND TOP RIMS SHALL BE TO MEET SAFE LOAD OF: HEAVY DUTY, GREATER THAN 5,000 BUT UNDER 7,499 POUNDS..	--	--	--	4"	--

GAS FIRED DOMESTIC WATER HEATER SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	AREA SERVED	ENERGY SOURCE	TANK SIZE				INPUT MBH	EFFICIENCY	VOLTAGE PHASE FREQUENCY	AMPERAGE	RECOVERY @ 100 DEGREE RISE	NOTES
					GALLONS	DIAMETER	HEIGHT	WEIGHT						
GWH-1	AO SMITH	BTH-199 MXI	KITCHEN/BAR	NATURAL GAS	100	27-3/4"	76"	523 LBS	199 MBH	98%	120V / 1 / 60 HZ	NOT LISTED	470 GPH	1,2,3,4
NOTES: 1. 100 DEGREE TEMPERATURE RISE WITH 140 DEGREE OPERATING TEMPERATURE. 2. SET TEMPERATURE CONTROL TO FACTORY MINIMUM OF 110 DEGREES. 3. COORDINATE WITH MECHANICAL CONTRACTOR TO PROVIDE 4" PVC OUTSIDE INTAKE PIPING AND 4" PVC FLUE WITH FACTORY APPROVED TERMINATION KITS. 4. FURNISH WITH IMMERSION THERMOSTATS.														

DOMESTIC WATER THERMAL EXPANSION TANK SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	TANK RATING	VOLUME (GALLONS)		TANK		WEIGHT AT CAPACITY *	SYSTEM CONNECTION	INITIAL FILL PRESSURE	SYSTEM	NOTES
				TANK	ACCEPTANCE	DIAMETER	HEIGHT					
ET-1	AMTROL	ST-5	NON-ASME	2.0	0.9	8.0	13.0	13 LBS.	3/4"	NOTE 1	GWH-1	1, 2, 3
1. UNIT IS PRECHARGED AT THE FACTORY. NON-ASME THERMAL EXPANSION TANKS PRECHARGED TO 40 PSI, ASME RATED THERMAL EXPANSION TANKS PRECHARGED TO 55 PSI, COMPLETE THE CHARGE TO THE STATIC SUPPLY PRESSURE AT THE TANKS LOCATION. 2. SUSPEND TANK FROM PIPING. PROPERLY SUPPORT PIPING IN EACH SIDE OF THE TANK. 3. TANK IS A NOT ASME RATED. * WEIGHT INCLUDES ACCEPTANCE WATER AT CAPACITY, FOR A TANK RATED AT 150 PSI WORKING PRESSURE.												

HOT WATER RECIRCULATION PUMP SCHEDULE

TAG	LOCATION	MANUFACTURER	MODEL NUMBER	DESIGN CONDITIONS		MOTOR			SYSTEM	NOTES
				FLOW (GPM)	HEAD (FEET)	VOLTS/ PHASE	FREQ. (HERTZ)	AMPS		
HWP-1	KITCHEN 108	TACO	0012-SF1	6.00	15.0	120 / 1	60	1.33	1/8 HP	GWH-1 1,2,3
1. PUMP SHALL BE SUITABLE FOR USE IN POTABLE WATER SYSTEMS. 2. FURNISHED WITH AQUASTAT AND 24 HOUR TIMER. 3. PROVIDE WITH NEOPRENE MOUNTS *ND BY MASON INDUSTRIES OR SIMILAR) WITH FLEXIBLE CONNECTION AT INLET AND OUTLET OF PUMP.										



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LEE'S SUMMIT, MO 64086

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PLUMBING
SCHEDULES

P600

PIPING MATERIAL SCHEDULE												
SYSTEM	PIPING			FITTINGS					MAX WORKING		FIELD TEST	
	SIZE	TYPE	SCHEDULE	GRADE	ASTM	MATERIAL	MATERIAL	TYPE	PRESSURE (PSI)	TEMP. (DEG. F.)	PRESSURE (PSI)	TIME
DOMESTIC COLD WATER (ABOVE GRADE)	ALL	L	N/A	N/A	B88	CP	WC	SJ	100	180	150	2 HR
DOMESTIC HOT WATER/HOT WATER RECIRC. (ABOVE GRADE)	ALL	L	N/A	N/A	B88	CP	WC	SJ	100	180	150	2 HR
NATURAL GAS	2" & SMALLER	ERW	40	B	A53	BLK CS	MI	THRD	60	160	90	2 HR
NATURAL GAS	2-1/2" & LARGER	ERW	40	B	A53	BLK CS	BLK CI	WELDED & FLANGE	60	100	90	2 HR

NOTES:

- BLK- BLACK
- CI-CAST IRON
- CP- COPPER
- CS- CARBON STEEL
- MI-MALLEABLE IRON

S-BRAZED JOINT

SJ-SOLDER JOINT

THRD-THREADED

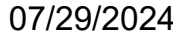
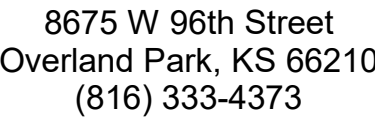
WELD-WELDED

WC -WROUGHT COPPER

PIPING MATERIAL SCHEDULE												
SYSTEM	PIPING				FITTINGS			MAX. WORKING		FIELD TEST		
	SIZE	TYPE	SCHEDULE	GRADE	ASTM	MATERIAL	MATERIAL	TYPE	PRESSURE (PSI)	TEMP. (DEG. F.)	PRESSURE (PSI)	TIME
SANITARY GREASE WASTE (ABOVE GRADE)	ALL	N/A	N/A	N/A	A74	CI	CI	NH	4.33	-	4.33	2 HR
SANITARY VENT (ABOVE GRADE)	ALL	N/A	N/A	N/A	A 888	CI	CI	NH	4.33	-	4.33	2 HR
CONDENSATE INDIRECT WASTE (ABOVE GRADE)	ALL	N/A	40	N/A	D 2665	PVC	PVC	SF	4.33	-	4.33	2 HR
NOTES:												
BLK - BLACK	S-BRAZED JOINT		SF - SOCKET FITTINGS									
CI-CAST IRON	S-JOLDER JOINT		NH-NO HUB									
CP - COPPER	THRD-THREADED											
CS - CARBON STEEL	WELD-WELDED											
MI-MALLEABLE IRON	PVC											

INSULATION MATERIAL SCHEDULE									
SYSTEM	INSULATION								
	TYPE	TEMPERATURE RATING	THERMAL CONDUCTIVITY	THICKNESS	PIPE SIZE	FITTING COVERS	LAGGING	PIPE SUPPORT	NOTES
DOMESTIC COLD WATER	TYPE 1, 1-PIECE MOLDED GLASS FIBER WITH ASJ	40 DEG. TO 450 DEG. F.	0.22 @ 75 DEG. F.	1/2"	ALL SIZES	1-PIECE PVC	--	INSULATION SHIELD	1
DOMESTIC HOT & RECIRCULATING WATER	TYPE 1, 1-PIECE MOLDED GLASS FIBER WITH ASJ	40 DEG. TO 450 DEG. F.	0.22 @ 75 DEG. F.	1/2"	ALL SIZES	1-PIECE PVC	--	INSULATION SHIELD	1

NOTES:
1. 40 DEGREES F. AND ABOVE.



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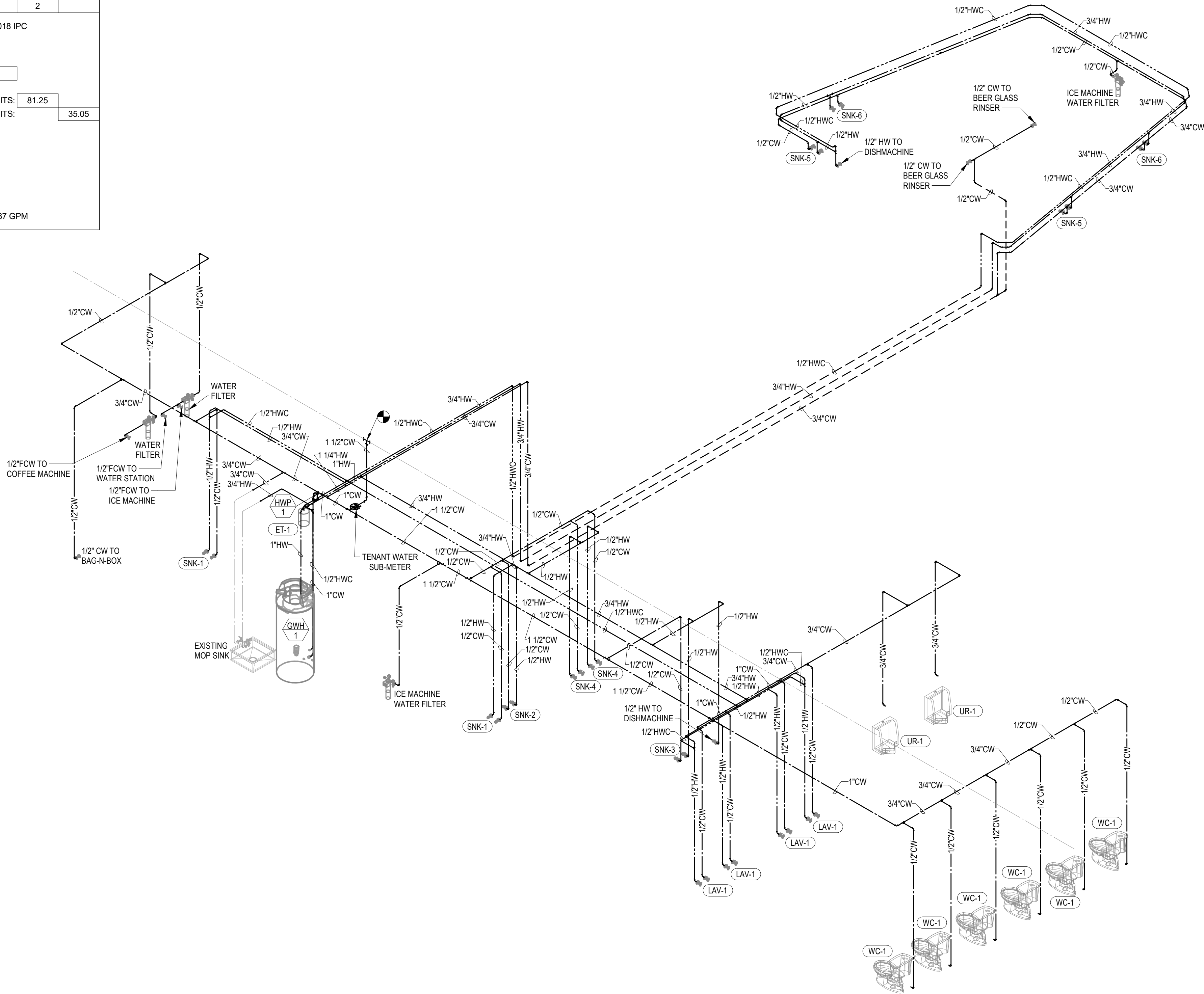
DOMESTIC WATER CALCULATIONS
2018 INTERNATIONAL PLUMBING CODE

FIXTURE TYPE	FIXTURE BRANCH MINIMUM (INCHES)	*WSFU					TOTAL	
			QTY	TOTAL	QTY	TOTAL	CW	HW
** DISHWASHER	1/2	1.4	2	2.80				2.80
DRINKING FOUNTAIN	3/8	0.50						
SINK (KITCHEN, HOTEL OR RESTAURANT)	3/4	4.0	5	20.00			15	15
SINK (LAVATORY)	3/8	2.0	4	8.00			6	6
SINK (SERVICE SINK, MOP SINK)	3/4"	3.0	1	3.00			2.25	2.25
URINAL, 3/4" FLUSH VALVE	3/4	5.0	2	10.00			10	
URINAL, 1" FLUSH VALVE	1	10.0						
WATER CLOSET (TANK)	3/8	5.0	6	30.00			30	
WATER CLOSET (FLUSHOMETER TANK)	3/8	2.0						
WATER CLOSET (FLUSH VALVE)	1	40.0						
ITEMS BELOW NOT LISTED IN CODE TABLES								
3/8" CONNECTION - COFFEE MACHINE	1/2	1.0	1	1.00			1.00	
3/8" CONNECTION - ICE MAKER	1/2	1.0	3	3.00			3	
WATER DISPENSER	1/2	1.0	1	1.00			6	3
HAND WASH SINK	1/2	2.0	4	8.00			6	6
BEER GLASS WASHER	1/2	1	2	2.00			2	

*WSFU = PUBLIC OR PRIVATE/PUBLIC FIXTURE UNITS PER: 2018 INTERNATIONAL PLUMBING CODE (IPC), 2018 IPC

** FU = PRIVATE ONLY FIXTURE UNITS PER: 2018 INTERNATIONAL PLUMBING CODE (IPC), 2018 IPC

TOTAL FIXTURE UNITS PER FLOOR:	89	
TOTAL FIXTURE UNITS:	89	CW FIXTURE UNITS: 81.25
COLD WATER SERVICE SIZE @ 5PSI:		HW FIXTURE UNITS: 35.05
FLUSH VALVE	1-1/2"	
TANK TYPE FIXTURE		
MAXIMUM GPM FLOW:		
FLUSH VALVE	64.3	
TANK TYPE FIXTURE		
VELOCITY IN FPS: [(0.408 x GPM)/inside Pipe Diameter Squared]	8.7	
DOMESTIC WATER SERVICE ENTRANCE SHALL BE 1-1/2" BASED ON A MAXIMUM CALCULATED DEMAND OF 87 GPM		



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PLUMBING
DOMESTIC WATER
PIPING ISOMETRIC

P700



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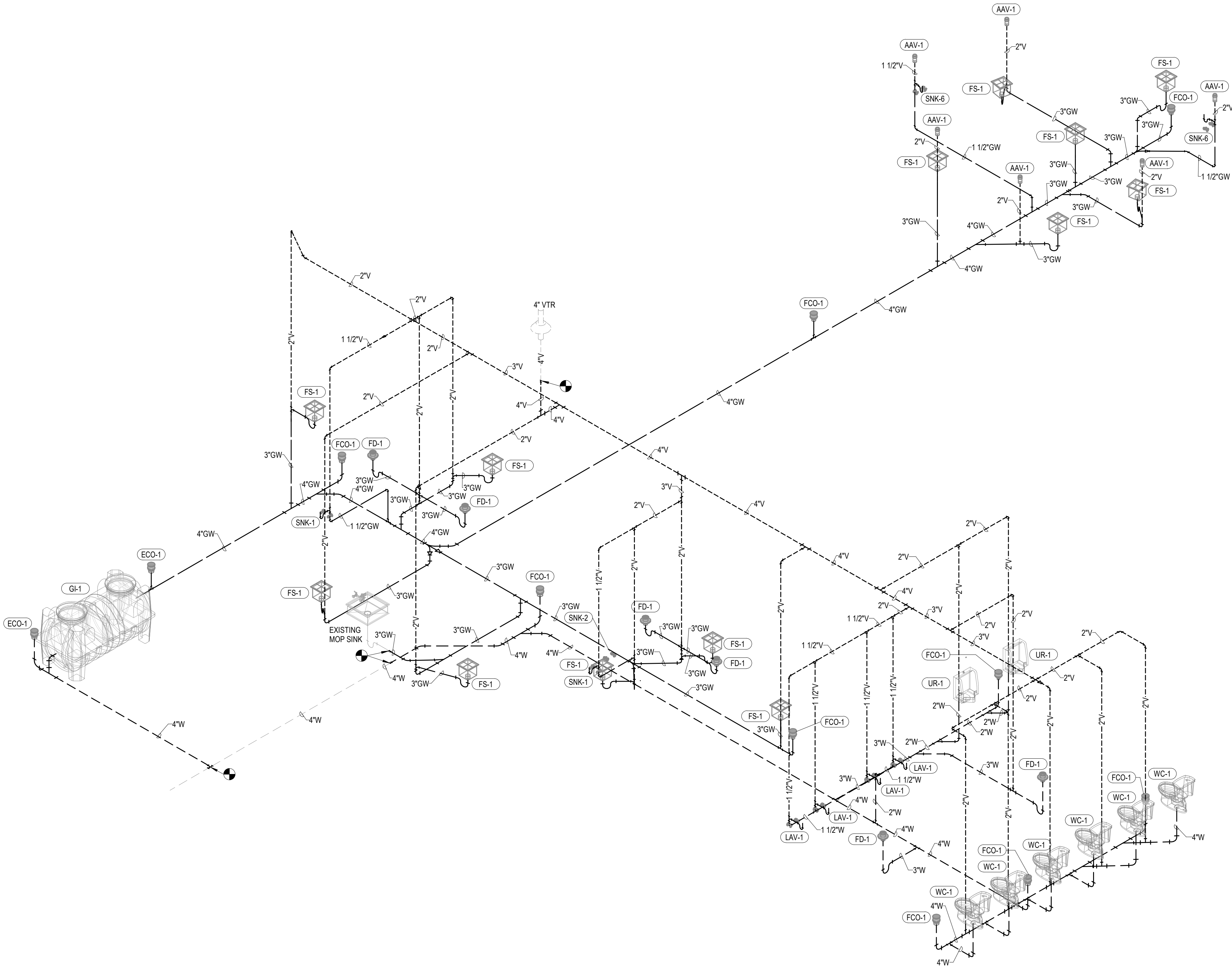
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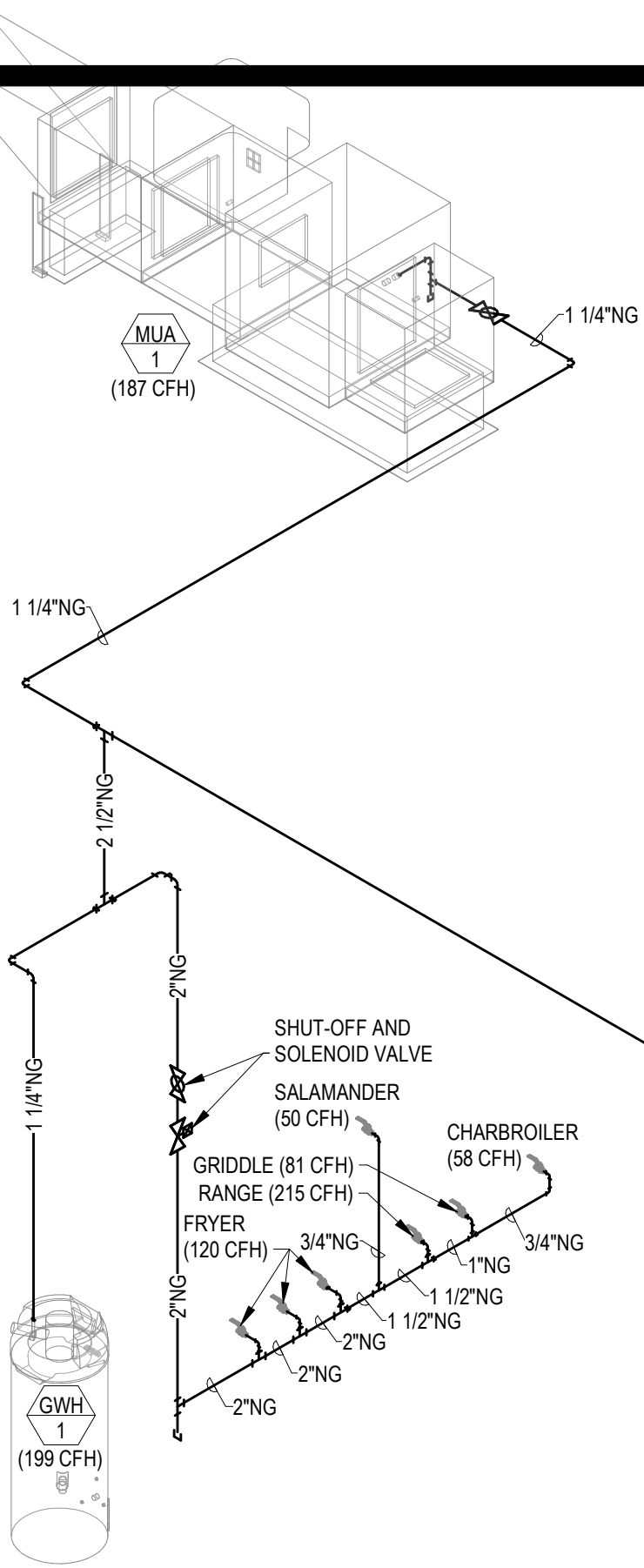
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PLUMBING WASTE AND VENT PIPING
ISOMETRIC

P701



1 PLUMBING WASTE AND VENT PIPING
ISOMETRIC



TOTAL CONNECTED GAS LOAD, SINGLE REGULATOR							
EQUIPMENT DESIGNATION	LOCATION (ROOMS)	EQUIPMENT QUANTITY	EQUIPMENT DESCRIPTION	CFH (EACH)	CFH TOTAL	TOTAL CFH PER BRANCH	NOTES
MAU-1	ROOFTOP	1	MAKE-UP AIR UNIT	187	187	187	A
GWH-1	KITCHEN	1	GAS WATER HEATER	199	199	199	A
FRYER	KITCHEN	3	FRYER	120	360		A
SALAMANDER	KITCHEN	1	SALAMANDER	50	50		
RANGE	KITCHEN	1	RANGE	215	215		
GRIDDLE	KITCHEN	1	GRIDDLE	81	81		
CHARBROILER	KITCHEN	1	CHARBROILER	58	58		
					764	764	
TOTAL GAS LOAD=						1,150	CFH
CALCULATED DEVELOPED LENGTH=						200	FT
A. 0.25 PSI (7" WATER COLUMN) NATURAL GAS SYSTEM SIZED WITH TOTAL DEVELOPED LENGTH FROM GAS METER TO MOST REMOTE REGULATOR OF 200' WITH A PRESSURE DROP OF 0.5" WATER COLUMN.							
B. EQUIPMENT SERVED BY REGULATOR PROVIDED BY THE TENANT.							

PROVIDE NATURAL GAS PRESSURE REGULATOR TO DECREASE PRESSURE DOWN TO 10 IN WC, AS REQUIRED.

NEW UTILITY GAS METER

1 PLUMBING NATURAL GAS PIPING ISOMETRIC

FSC MEP
ENGINEERS, LLC
8675 W 96th Street
Overland Park, KS 66210
(816) 333-4373



07/29/2024

MO CERTIFICATE OF AUTHORITY
MO #1999137647

Craft Putt - Lees Summit

Summit Fair
840-M NW BLUE PKWY, SUITE M
LEE'S SUMMIT, MO 64086

rev	issue	date
	PERMIT SET	07/29/2024

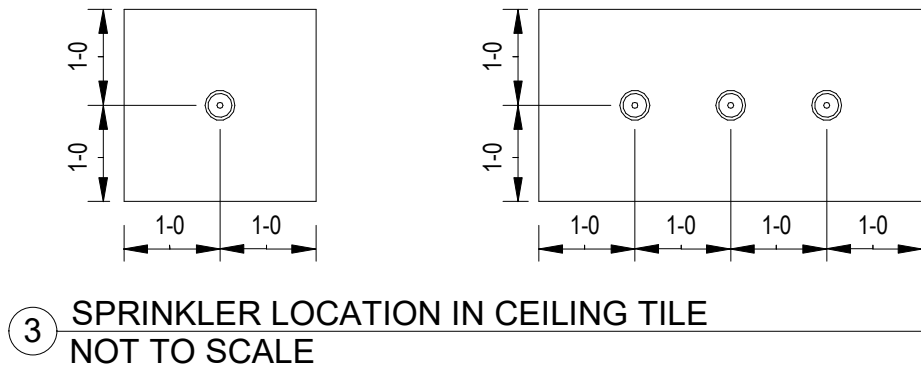
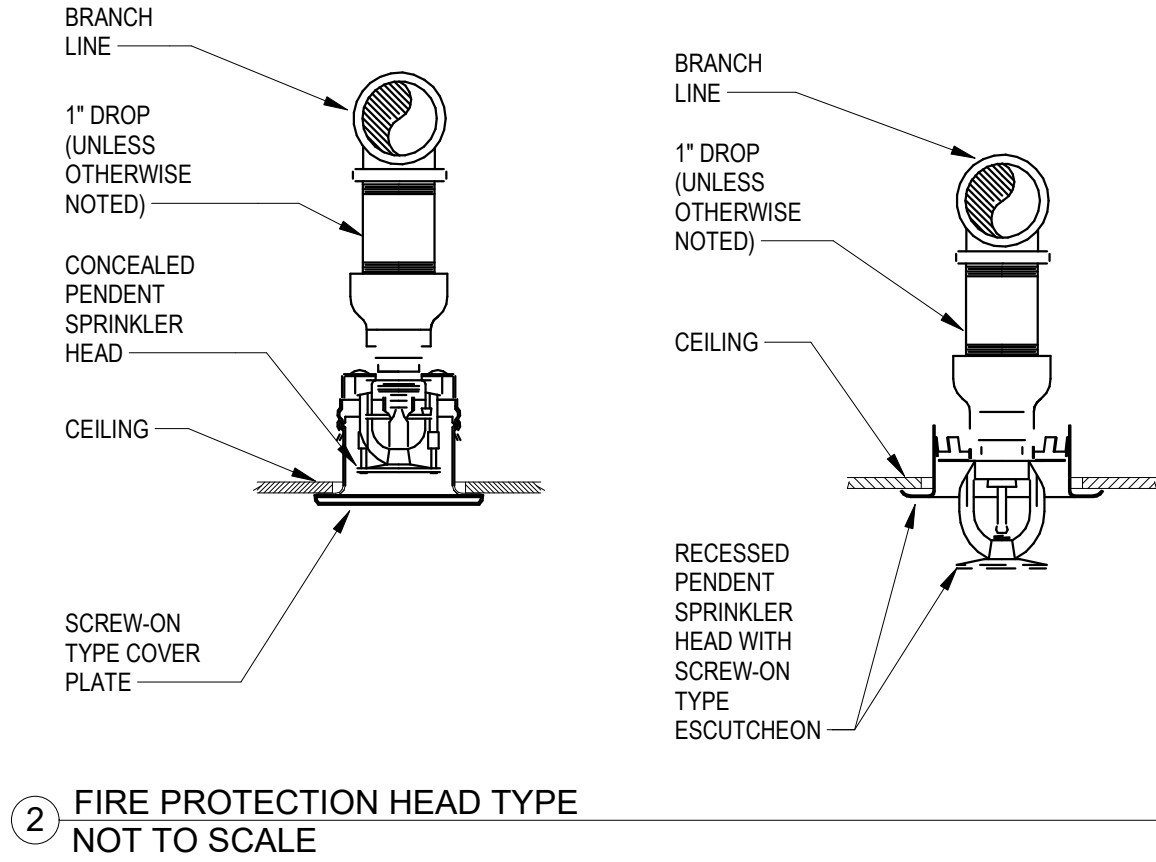
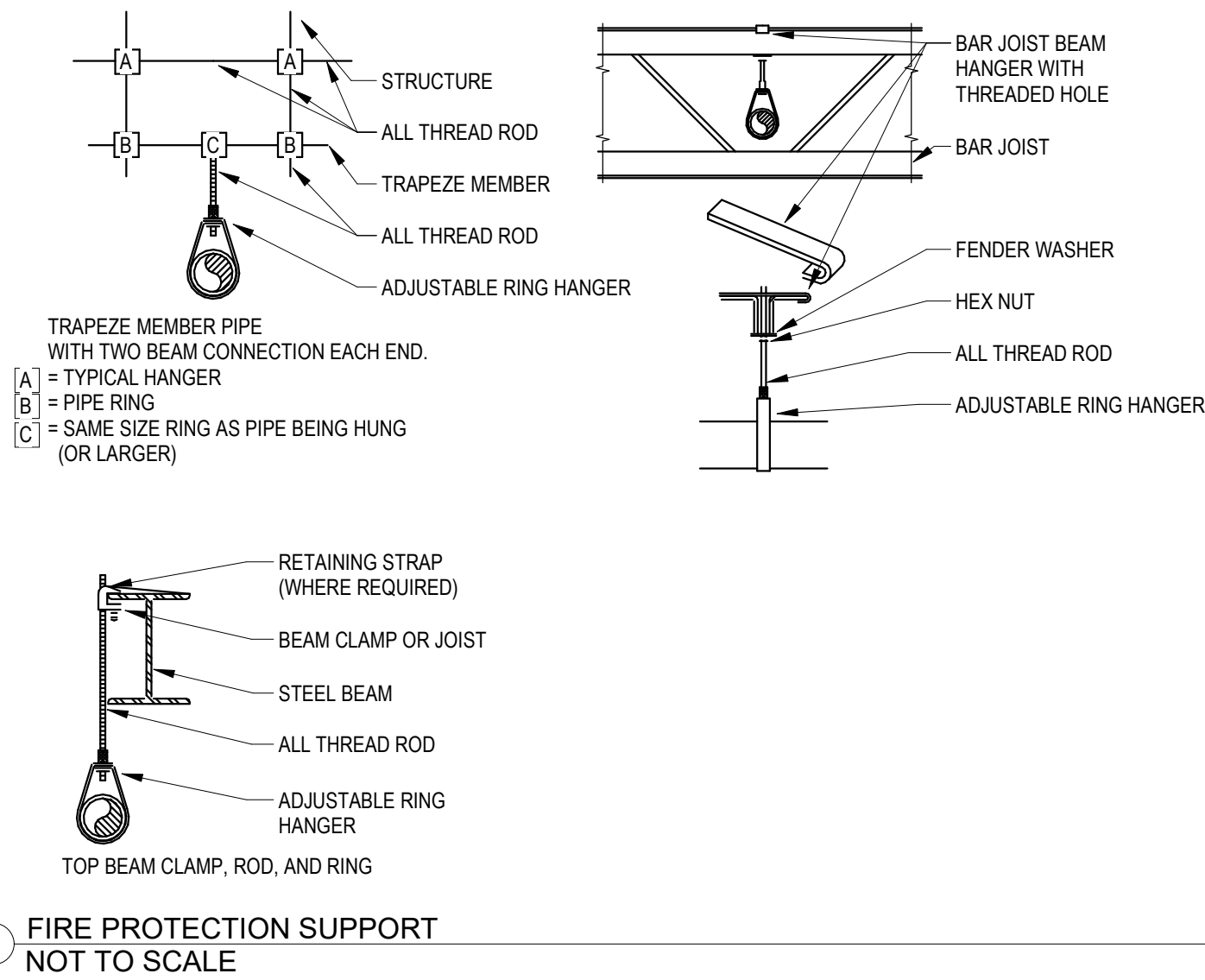
24.02. Craft Putt Lee's Summit

PLUMBING
NATURAL GAS
PIPING ISOMETRIC

P702



FP100



rev	issue	date
	PERMIT SET	07/29/2024

REVISIONS

DATE	NO.	DESCRIPTION
07.12.2024	1	MEP ROUGH-INS
07.29.2024	2	PERMIT SET

CRAFT PUTT
LEE'S SUMMIT, MO

PROJECT PHASE:

DATE:	PROJECT #:
06/27/2024	2024058
DRAWN BY:	APPROVED BY:
NLB	APR

SHEET TITLE:

FOODSERVICE
EQUIPMENT PLAN

SHEET NUMBER:

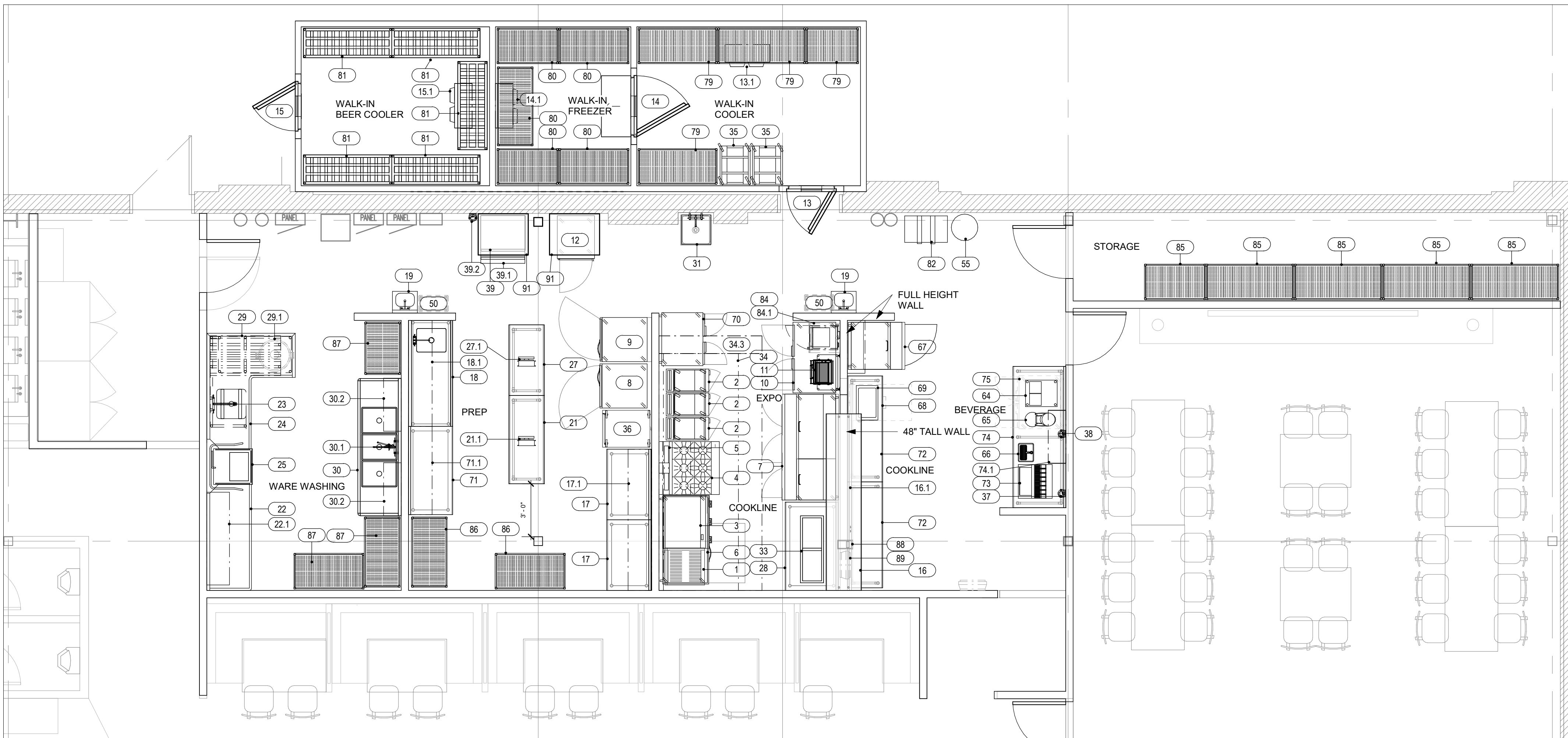
QF101

GENERAL NOTES

- THESE DRAWINGS ARE TO BE USED AS AN INSTRUMENT OF REFERENCE BY ALL OTHER TRADES AND CONTRACTORS. ALL TRADES SHALL VERIFY THE INFORMATION AS INDICATED ON THESE PLANS.
- DIMENSIONS AND REQUIREMENTS FOR ALL EQUIPMENT THAT IS LISTED AS EXISTING, PROVIDED BY OTHERS OR PROVIDED BY OWNER, MUST BE VERIFIED WITH THE APPROPRIATE PARTIES.
- ARCHITECT TO LOCATE ALL REMOTE COMPRESSORS AND CONDENSERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- TRIMARK DOES NOT EMPLOY A LICENSED ARCHITECT OR ENGINEER. THESE DOCUMENTS PROVIDED BY TRIMARK ARE GUIDELINE DOCUMENTS ONLY AND ARE INTENDED TO BE INCORPORATED INTO THE FINAL CONSTRUCTION DOCUMENTS BY A LICENSED ARCHITECT OR ENGINEER THAT IS EMPLOYED BY THE OWNER. FINAL CODE COMPLIANCE, PLAN SUBMITAL AND ASSOCIATED FEES ARE THE RESPONSIBILITY OF THE ARCHITECT AND/OR GENERAL CONTRACTOR.

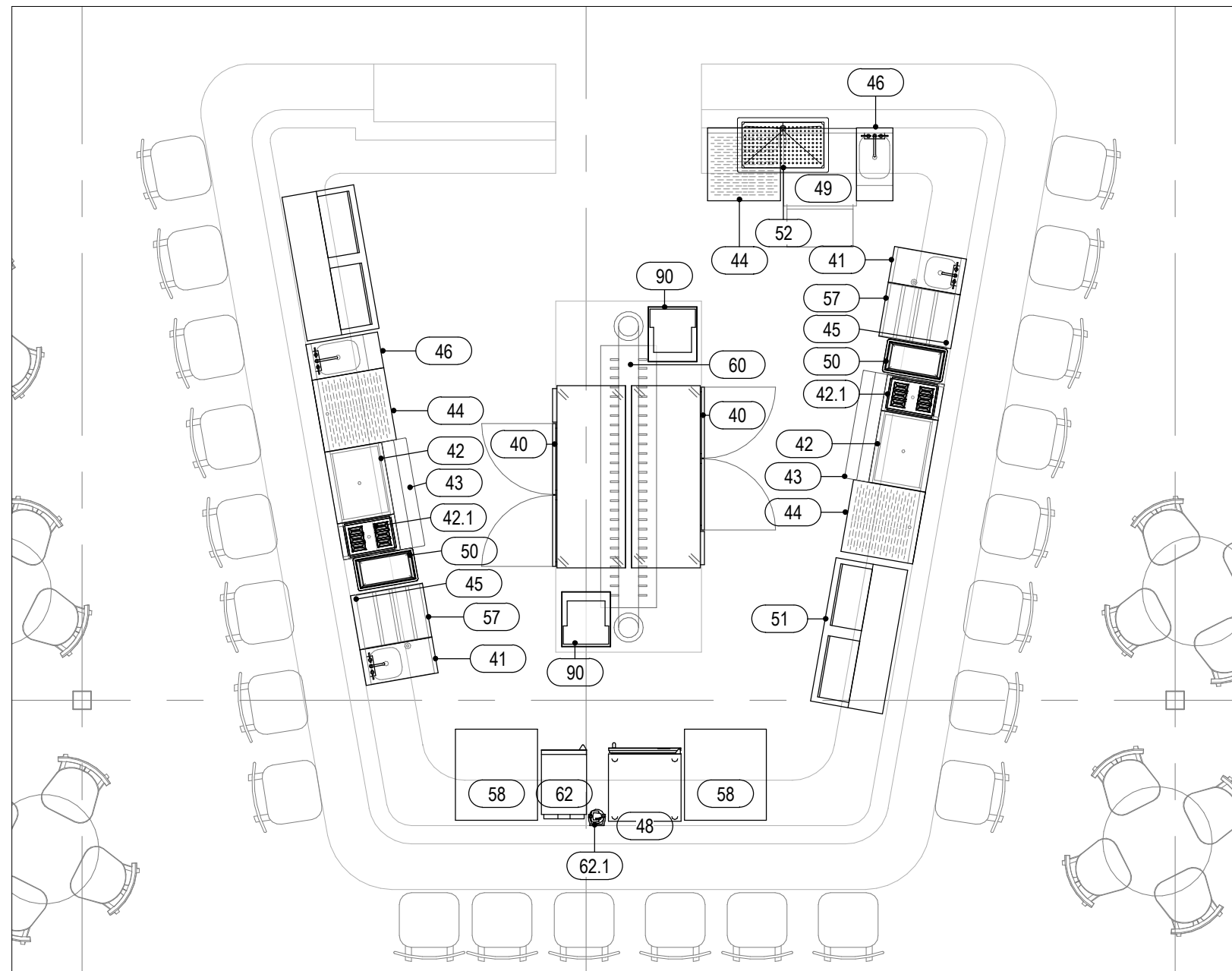
FOODSERVICE EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	REMARKS
1	1	CHARBROILER, 24" COUNTERTOP, GAS	
2	3	FRYER, GAS	
3	1	GRIDDLE, 36" COUNTERTOP, GAS	
4	1	RANGE, 36", 6-BURNER, GAS	
5	1	SALAMANDER, GAS	
6	1	REFRIGERATED BASE 60"	
7	1	MEGA TOP SANDWICH/SALAD PREP REFRIGRATOR	
8	1	REFRIGERATOR, REACH-IN	
9	1	FREEZER, REACH-IN	
10	1	REFRIGERATOR, WORKTOP 48"	
10.1	2	WALL SHELVING, EPOXY, STACKED (14X24)	MOUNT AT 50" & 62" AFF
11	1	SANDWICH/PANINI GRILL	
12	1	MOBILE HEATED CABINET	
13	1	WALK-IN COOLER	
13.1	1	EVAPORATOR COIL - COOLER	
13.2	1	WALK-IN COOLER CONDENSING UNIT	
14	1	WALK-IN FREEZER	
14.1	1	EVAPORATOR COIL - FREEZER	
14.2	1	WALK-IN COOLER CONDENSING UNIT	
15	1	WALK-IN COOLER	
15.1	1	EVAPORATOR COIL - BEER COOLER	
15.2	1	WALK-IN COOLER CONDENSING UNIT	
16	1	PASS-THRU SHELF 120"	
16.1	1	HEAT LAMP	
17	2	WORK TABLE (30X48)	
17.1	1	STAINLESS STEEL WALL SHELVES	MOUNT AT 60" AFF
18	1	WORK TABLE W/ PREP SINK (30 X 72)	
18.1	1	STAINLESS STEEL WALL SHELVES	MOUNT AT 60" AFF
19	2	WALL MOUNT HANDSINK W/ FAUCET	
20	1	SPARE NUMBER	
21	1	WORK TABLE (24 X 60)	
21.1	1	CORD REEL	
22	1	CLEAN DISHTABLE	
22.1	1	SOLID SORTING SHELVES - WALL MOUNTED	
23	1	PRE-RINSE FAUCET W/ ADD ON FAUCET	
24	1	SOILED DISHTABLE W/ PRE-RINSE	
25	1	DOOR TYPE DISHMACHINE	
26	1	SPARE NUMBER	
27	1	WORK TABLE (24 X 48)	
27.1	1	CORD REEL	
28	1	WORK TABLE (36 X 60)	
29	1	TABLE MOUNT DOUBLE SIDED RACK SHELF	
29.1	1	TRASH CONTAINER	
30	1	THREE COMPARTMENT SINK	
30.1	1	PRE-RINSE FAUCET	
30.2	4	WALL SHELVES - DOUBLE STACKED	<varies>
31	1	MOP SINK W/ FAUCET - EXISTING	EXISTING
32	1	SPARE NUMBER	
33	1	HOT FOOD WELLS, DROP-IN, ELECTRIC	
34	1	TYPE I EXHAUST HOOD	
34.1	2	ROOF MOUNTED EXHAUST FAN	
34.2	1	MAKE UP AIR UNIT	
34.3	1	CONTROL PANEL	
35	2	BUN PAN RACK	
36	1	HEATED HOLDING PROOFING CABINET, HALF HEIGHT	
37	1	WATER FILTER, ICE MACHINE AND WATER STATION	
38	1	WATER FILTER, COFFEE MACHINE	
39	1	ICE MAKER, CUBE	
39.1	1	ICE BIN	
39.2	1	WATER FILTER, ICE MACHINE	
40	2	BACK BAR COOLER 60"	
41	2	HAND SINK	
42	2	Ice Bin	
42.1	2	Underbar Ice Bin	
43	2	UNDERBAR BASICS™ SPEED RAIL, DOUBLE TIER, 24"W X 8-1/8"D X 6-1/2"H, (10-12) BOTTLE CAPACITY	
44	3	DRAIN BOARD W/ STORAGE	
45	2	SODA GUN MOUNTED UNDERBRACKER - BY VENDOR	BY VENDOR
46	2	DUMP SINK	
47	1	SPARE NUMBER	
48	1	WINE REFRIGERATOR, UNDERCOUNTER	
49	1	UNDERCOUNTER DISHWASHER	
50	4	TRASH RECEPTACLE	
51	2	BOTTLE COOLER	
52	1	BEVERAGE DRAIN TROUGH	
53-54	1	SPARE NUMBER	
55	1	CO2 TANK - BY OTHERS	BY OTHERS
56	1	SPARE NUMBER	
57	2	LIQUOR DISPLAY	
58	2	UNDERCOUNTER FREEZER	
59	1	SPARE NUMBER	
60	1	BEER TAPS W/ DRAINBOARD	
61	1	SPARE NUMBER	
62	1	ICE MAKER W/ BIN, NUGGET	
62.1	1	WATER FILTER, ICE MACHINE	
63	1	SPARE NUMBER	
64	1	COFFEE BREWER - BY OTHERS	BY OTHERS
65	1	COFFEE GRINDER-BY OTHERS	BY OTHERS
66	1	WATER STATION	
67	1	REFRIGERATOR, SANDWICH PREP TABLE	
67.1	1	WALL SHELVES - DOUBLE STACKED	MOUNT AT 60" AFF
68	1	DRAWER WARMERS ON CASTERS	
69	1	FOOD PAN WARMER, COUNTERTOP	
70	1	FREEZER, WORKTOP	
71	1	WORK TABLE (30X60)	
71.1	1	STAINLESS STEEL WALL SHELVES	MOUNT AT 60" AFF
72	2	WORK TABLE (24X72)	
73	1	SODA/ICE DROP IN DISPENSER-BY OTHERS	BY OTHERS
74	1	WORK TABLE (36 X 96)	
74.1	2	WALL SHELVES - DOUBLE STACKED	<varies>
75	1	REFRIGERATOR, UNDERCOUNTER	
76-78	1	SPARE NUMBER	
79	4	WIRE SHELVING UNIT, COOLER STORAGE	
80	5	WIRE SHELVING UNIT, FREEZER STORAGE	
81	5	KEG STORAGE RACK	
82	1	BAG-N-BOX SYSTEM - BY OTHERS	BY OTHERS
83	1	SPARE NUMBER	
84	1	OVEN, MICROWAVE	
84.1	1	STAINLESS MICROWAVE SHELF	MOUNT AT 60" AFF
85	5	WIRE SHELVING UNIT, DRY STORAGE	
86	2	WIRE SHELVING UNIT, DRY STORAGE	
87	3	WIRE SHELVING UNIT, POTS AND PANS	
88	1	POS PRINTER	
89	2	POS MONITOR	
90	2	POS AT BAR	
91	2	GLYCOL SYSTEM	



KITCHEN EQUIPMENT PLAN

1/4" = 1'-0"

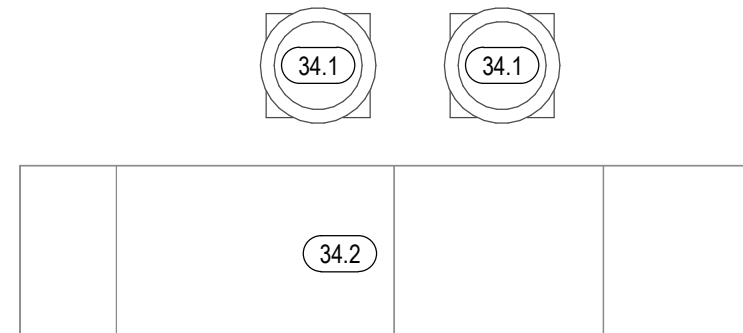


BAR EQUIPMENT PLAN

1/4" = 1'-0"

EXHAUST/SUPPLY FAN SCHEDULE

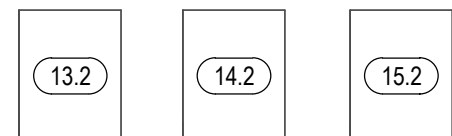
FANS LOCATED ON BUILDING ROOF. SEE ARCHITECTURAL DRAWING FOR EXACT LOCATIONS



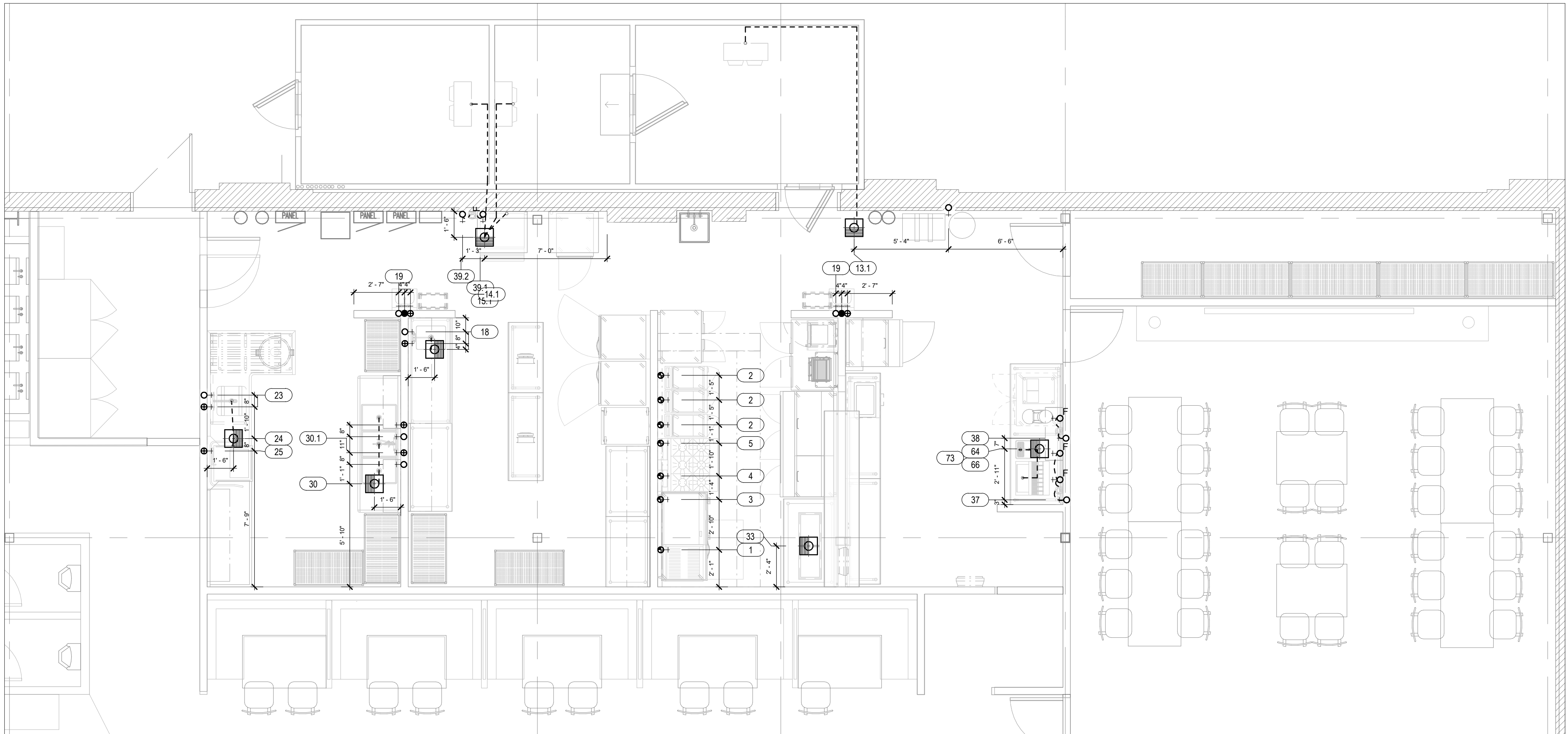
REFER TO MANUFACTURER SPECS/SHOP DRAWINGS FOR EXACT SIZE AND WEIGHT REQ'S FOR ALL EXHAUST/SUPPLY FANS.

REFRIGERATION SCHEDULE

CONDENSING UNITS LOCATED ON CONCRETE SLAB/ BUILDING ROOF. SEE ARCHITECTURAL DRAWING FOR EXACT LOCATIONS.



REFER TO MANUFACTURER SPECS/SHOP DRAWINGS FOR EXACT SIZE AND WEIGHT REQ'S FOR ALL REFRIGERATION EQUIPMENT.



PLUMBING -KITCHEN ROUGH-IN PLAN

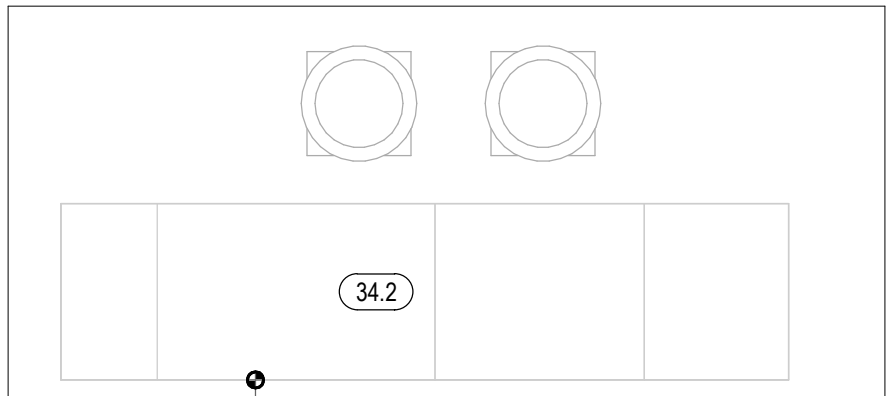
1/4" = 1'-0"

FOODSERVICE PLUMBING SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	HW SIZE	HW AFF	CW SIZE	CW AFF	DW SIZE	DW AFF	GAS SIZE	GAS AFF	GAS MBTU	PLUMBING REMARKS
1	1	CHARBROILER, 24" COUNTERTOP, GAS							3/4"	18"	58.0	QUICK DISCONNECT BY KEC
2	3	FRYER, GAS							3/4"	18"	120.0	QUICK DISCONNECT BY KEC
3	1	GRIDDLE, 36" COUNTERTOP, GAS							3/4"	18"	81.0	QUICK DISCONNECT BY KEC
4	1	RANGE, 36", 6-BURNER, GAS							3/4"	18"	215.0	QUICK DISCONNECT BY KEC
5	1	SALAMANDER, GAS							3/4"	66"	50.0	QUICK DISCONNECT BY KEC
13.1	1	EVAPORATOR COIL - COOLER										PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
14.1	1	EVAPORATOR COIL - FREEZER										PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
15.1	1	EVAPORATOR COIL - BEER COOLER										PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
16	1	WORK TABLE W/ PREP SINK (30 X 72)	1"	14"	1"	14"	3 1/2"	16"				PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
19	2	WALL MOUNT HANDSINK W/ FAUCET	1/2"	14"	1/2"	14"	1 1/2"	16"				
23	1	PRE-RINSE FAUCET W/ ADD ON FAUCET	1/2"	14"	1/2"	14"						
24	1	SOILED DISHTABLE W/ PRE-RINSE	1/2"	14"	1/2"	14"						
25	1	DOOR TYPE DISHMACHINE	1/2"	14"								PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
30	1	THREE COMPARTMENT SINK										PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
30.1	1	PRE-RINSE FAUCET	1/2"	14"	1/2"	14"						
33	1	HOT FOOD WELLS, DROP-IN, ELECTRIC										PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
34.2	1	MAKE UP AIR UNIT							1"		186.6	QUICK DISCONNECT BY KEC
37	1	WATER FILTER, ICE MACHINE AND WATER STATION			1/2"	14"						
38	1	WATER FILTER, COFFEE MACHINE			1/2"	60"						
39	1	ICE MAKER, CUBE										
39.1	1	ICE BIN										PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
39.2	1	WATER FILTER, ICE MACHINE			1/2"	60"						
41	2	HAND SINK	1/2"	14"	1/2"	14"	1 1/2"	16"				
44	3	DRAIN BOARD W/ STORAGE										PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
46	2	DUMP SINK	1/2"	14"	1/2"	14"						PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
49	1	UNDERCOUNTER DISHWASHER	1/2"	14"								PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
52	1	BEVERAGE DRAIN TROUGH										
60	1	BEER TAPS W/ DRAINBOARD			1/2"							PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK, (1) CW CONNECTION AT EACH END OF DRAINBOARD FOR GLASS RINSERS
62	1	ICE MAKER W/ BIN, NUGGET										PC TO EXTEND CW LINE FROM WATER FILTER TO ICE MACHINE. PC TO EXTENDING INDIRECT WASTELINE TO FLOOR SINK
62.1	1	WATER FILTER, ICE MACHINE			1/2"	60"						
64	1	COFFEE BREWER - BY OTHERS										BY OTHERS. PC TO EXTEND CW LINE FROM FILTER TO COFFEE BREWER. PC TO EXTEND INDIRECT WASTELINE TO FLOOR SINK
66	1	WATER STATION										PC TO EXTEND CW LINE FROM FILTER TO WATER STATION MACHINE. PC TO EXTENDING INDIRECT WASTELINE TO FLOOR SINK
73	1	SODA/ICE DROP IN DISPENSER-BY OTHERS										BY OTHERS. PC TO EXTEND CW LINE FROM FILTER TO SODA MACHINE. PC TO EXTENDING INDIRECT WASTELINE TO FLOOR SINK
91	2	GLYCOL SYSTEM										

EXHAUST/SUPPLY FAN SCHEDULE

FANS LOCATED ON BUILDING ROOF. SEE ARCHITECTURAL DRAWING FOR EXACT LOCATIONS



REFER TO MANUFACTURER SPECS/SHOP DRAWINGS FOR EXACT SIZE AND WEIGHT REQ'S FOR ALL EXHAUST/SUPPLY FANS.

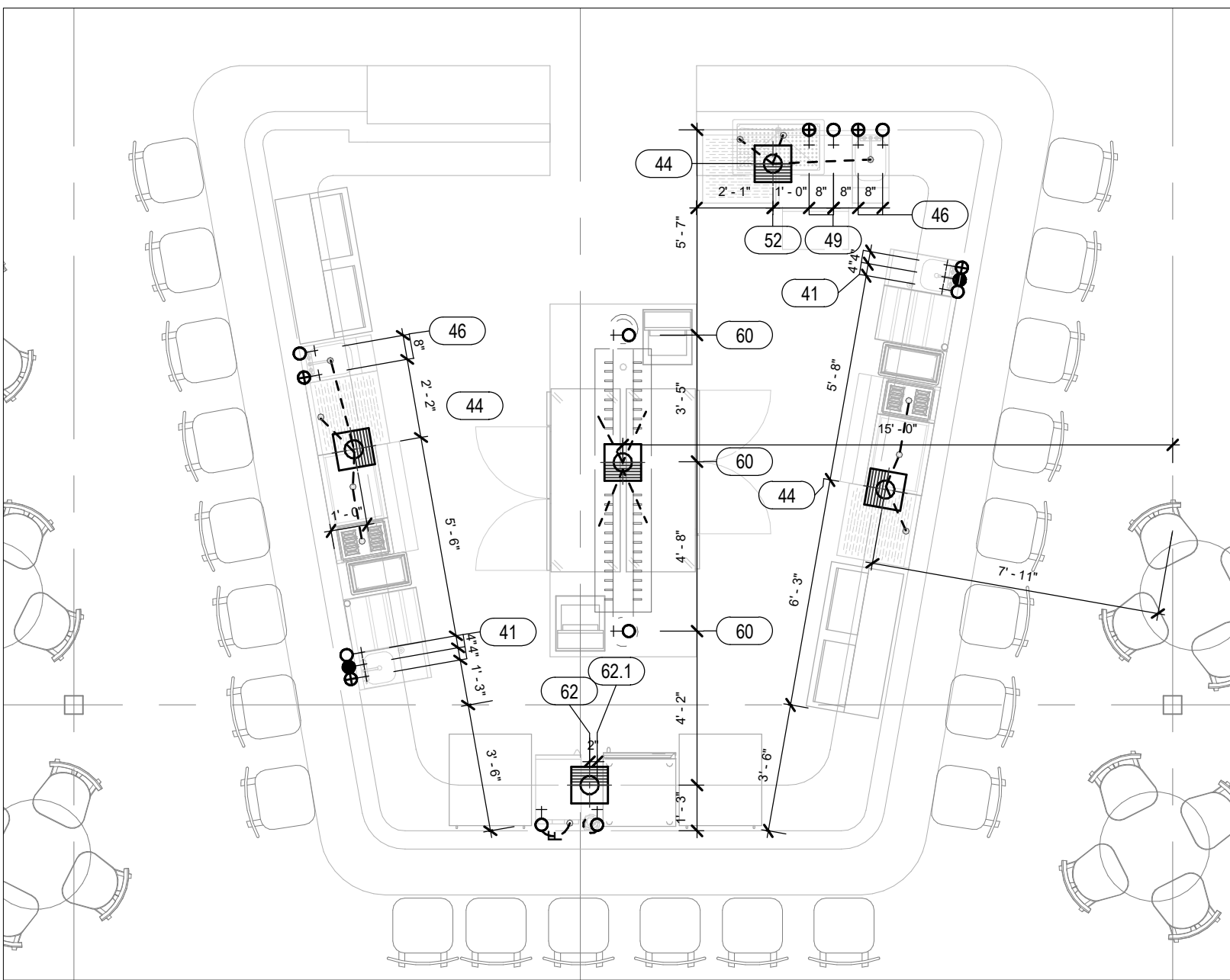
PLUMBING LEGEND

- HOT WATER
- HOT WATER - SOFTENED
- COLD WATER
- COLD WATER - SOFTENED
- FILTERED WATER
- DIRECT WASTE
- FLOOR SINK - THREE-QUARTER GRATE
- FLOOR SINK - HALF GRATE
- FLOOR SINK - NO GRATE
- FLOOR DRAIN
- FUNNEL FLOOR DRAIN
- HUB FLOOR DRAIN
- AREA FLOOR DRAIN - SLOPED PER CODE
- GAS DROP FROM MANIFOLD
- FIRE SUPPRESSION GAS SHUT-OFF VALVE
- CHILLED WATER
- CHILLED WATER RETURN
- STEAM SUPPLY
- CONDENSATE RETURN

PLUMBING NOTES
(DIVISION 22)

NOTE: THE FOLLOWING ADDITIONAL REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR (DIVISION 22) AND SHALL BE APPLICABLE ONLY WHERE NOTED ON THE PLUMBING ROUGH-IN PLAN(S). THE PLUMBING CONTRACTOR (DIVISION 22) SHALL VERIFY AND COORDINATE THE EXACT PLUMBING REQUIREMENTS FOR ALL NIC EQUIPMENT PRIOR TO FINAL ROUGH-IN.

- A. INSTALL KEC (SECTION 114000) FURNISHED FLOOR TROUGH(S).
- B. INSTALL KEC (SECTION 114000) FURNISH MOP SINK(S).
- C. INSTALL KEC (SECTION 114000) FURNISHED FIRE SUPPRESSION SYSTEM GAS SHUT OFF VALVE. MUST BE ACCESSIBLE AND NOT CONCEALED IN WALL OR CEILING.
- D. INSTALL KEC (SECTION 114000) FURNISHED DRAIN LINE TEMPERING KIT PER MANUFACTURER'S RECOMMENDATIONS.
- E. MANIFOLD DRAINS TO SINGLE CONNECTION.
- F. FURNISH AND INSTALL BALL VALVE IN DRAIN LINE. VALVE TO BE IN EASILY ACCESSIBLE LOCATION.
- G. INTERPLUMB BETWEEN FILTER AND EQUIPMENT. PIPING FROM WATER FILTER OUTLET TO POINTS OF USE SHALL BE CONCEALED WITHIN WALLS AND CEILINGS. EXTEND DRAIN(S) TO FLOOR SINK/FLOOR DRAIN, IF REQUIRED.
- H. CONNECT MIN. 110°F HOT WATER SUPPLY TO BUILT-IN OR EXTERNAL (70° RISE) BOOSTER HEATER. WHEN EXTERNAL, INSTALL TEMPERATURE/PRESSURE GAUGE(S) AS REQ'D AND EXTEND TO DISHWASHER INLET.
- I. CONNECT DRAIN(S) WITH REFRIGERATION GRADE HARD COPPER USING 1" STANDOFFS. "P" TRAP DRAIN OUTSIDE WALK-IN COMPARTMENT(S). PROVIDE AND INSTALL SLEEVES THRU WALK-IN AND BUILDING WALLS FOR DRAIN LINE(S). FOAM & CAULK AROUND SLEEVES AND DRAIN LINES. WRAP WITH DRAIN LINE HEATER AND INSULATION WHERE SUBJECT TO FREEZING TEMPERATURES.
- J. REFRIGERATION CONTRACTOR SHALL PROVIDE WALK-IN EVAPORATOR CONDENSATE DRAIN(S) PER REFRIGERATION GENERAL REQS.
- K. PROVIDE GRAY WATER AND SLURRY PIPING TO AND FROM (SECTION 114000) FURNISHED PULPER, TROUGH, AND WATER EXTRACTOR. INSTALL KEC (SECTION 114000) FURNISHED TROUGH INLET NOZZLES AND PROVIDE SHUT OFF VALVE AT EACH NOZZLE.
- L. PROVIDE "TEE" IN HOT WATER LINE AND CAP FOR FUTURE INSTALLATION OF CHEMICAL DISPENSING SYSTEM BY OTHERS.
- M. PROVIDE CHROME PLATED PIPE AND FITTINGS WHERE EXPOSED.
- N. PROVIDE AND INSTALL 3" MIN. DRAIN LINE TO 12"X12"X10" DEEP FLOOR SINK.
- O. VERIFY EXACT LOCATION AND QUANTITY OF AREA FLOOR DRAIN(S) WITH THE PLUMBING ENGINEER.



PLUMBING - BAR ROUGH-IN PLAN

1/4" = 1'-0"

REVISIONS

DATE	NO.	DESCRIPTION
07.12.2024	1	MEP ROUGH-INS
07.29.2024	2	PERMIT SET

PROJECT PHASE:

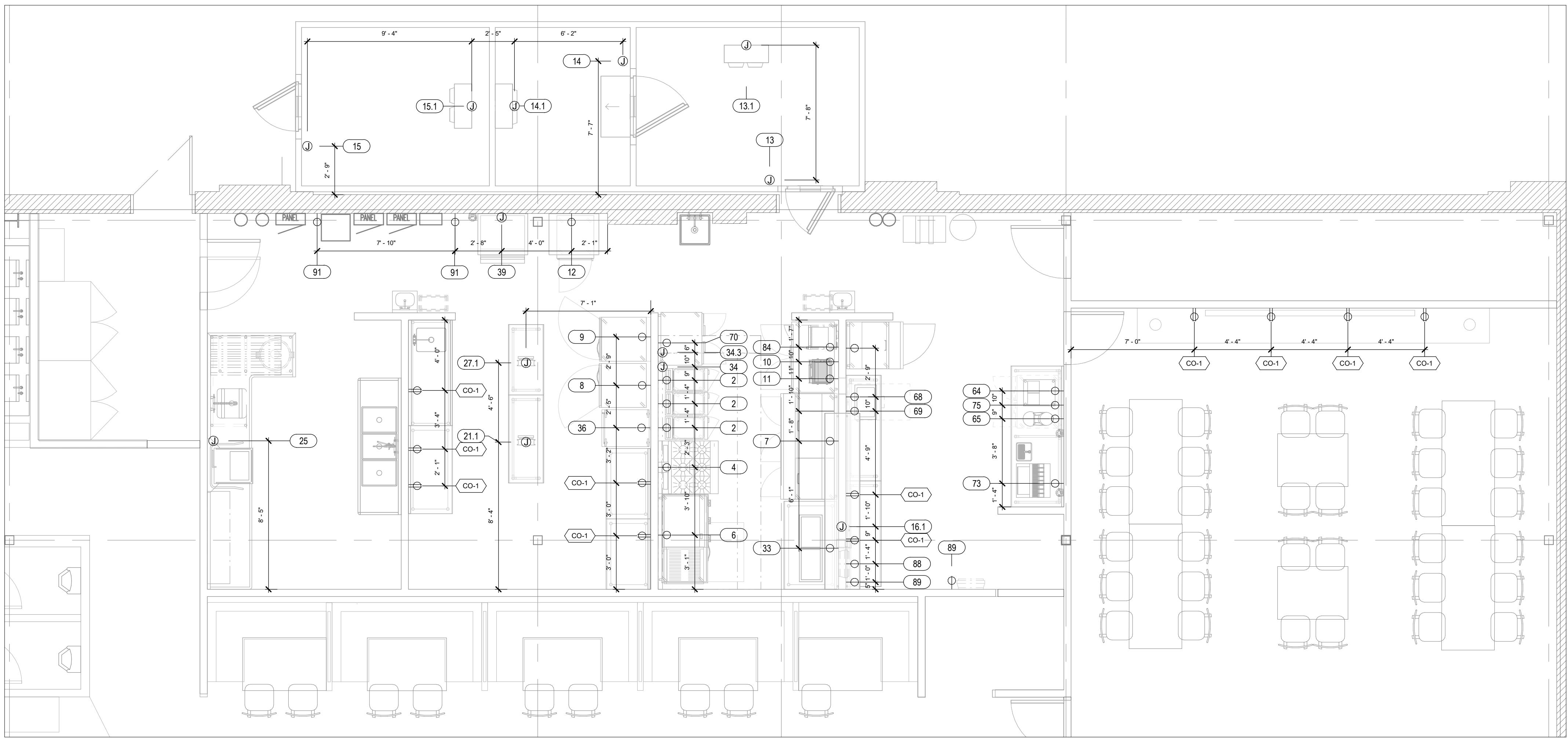
DATE:	PROJECT #:
06/27/2024	2024058
DRAWN BY:	APPROVED BY:
NLB	APR

SHEET TITLE:

FOODSERVICE
PLUMBING IN-SLAB
ROUGH-IN PLAN

SHEET NUMBER:

QF201



KITCHEN ELECTRICAL ROUGH-IN PLAN

1/4" = 1'-0"

FOODSERVICE ELECTRICAL SCHEDULE

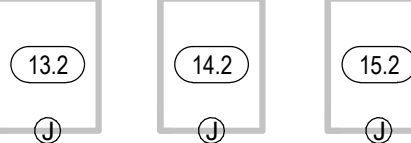
ITEM NO.	QTY.	DESCRIPTION	VOLTS	PHASE	AMPS	TYPE	TYPE AFF	ELECTRICAL REMARKS
2	3	FRYER, GAS	120	1	5.0	SR	24"	
4	1	RANGE, 36", 6-BURNER, GAS	120	1	4.0	SR	24"	
6	1	REFRIGERATED BASE 60"	120	1	1.7	SR	24"	
7	1	MEGA TOP SANDWICH/SALAD PREP REFRIGRATOR	120	1	5.4	SR	24"	
8	1	REFRIGERATOR, REACH-IN	120	1	2.0	SR	48"	
9	1	FREEZER, REACH-IN	120	1	5.0	SR	48"	
10	1	REFRIGERATOR, WORKTOP 48"	120	1	2.2	SR	24"	
11	1	SANDWICH/PAINI GRILL	240	1	15.0	SR	48"	
12	1	MOBILE HEATED CABINET	120	1	16.7	SR	24"	
13	1	WALK-IN COOLER	120	1	16.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
13.1	1	EVAPORATOR COIL - COOLER	208	1	15.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
13.2	1	WALK-IN COOLER CONDENSING UNIT	208	3	15.0	JB		JB LOCATION TBD BY ARCHITECT. VERIFY ROUGH-INS
14	1	WALK-IN FREEZER	120	1	16.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
14.1	1	EVAPORATOR COIL - FREEZER	208	1	15.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
14.2	1	WALK-IN COOLER CONDENSING UNIT	208	3	15.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
15	1	WALK-IN COOLER	120	1	16.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
15.1	1	EVAPORATOR COIL - BEER COOLER	208	1	15.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
15.2	1	WALK-IN COOLER CONDENSING UNIT	208	3	15.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
16.1	1	HEAT LAMP	120	1	25.8	JB	44"	MOUNT HORIZONTAL
21.1	1	CORD REEL	120	1	15.0	JB		CEILING MOUNT
25	1	DOOR TYPE DISHMACHINE	120	1	10.0	JB	24"	
27.1	1	CORD REEL	120	1	15.0	JB		
33	1	HOT FOOD WELLS, DROP-IN, ELECTRIC	208	3	10.1	SR	24"	
34	1	TYPE I EXHAUST HOOD	120	1	16.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
34.1	2	ROOF MOUNTED EXHAUST FAN	480	3	1.3	JB		LOCATION TBD BY ARCHITECT. VERIFY ROUGH INS
34.2	1	MAKE UP AIR UNIT	480	3	2.7	JB		LOCATION TBD BY ARCHITECT. VERIFY ROUGH INS
34.3	1	CONTROL PANEL	120	1	12.0	JB		JB DOWN FROM ABOVE. VERIFY ROUGH-INS
36	1	HEATED HOLDING PROOFING CABINET, HALF HEIGHT	120	1	16.7	SR	24"	
39	1	ICE MAKER, CUBE	120	1	12.0	JB	60"	
40	2	BACK BAR COOLER 60"	120	1	2.2	SR		FLOOR MOUNT RECEPTACLE
48	1	WINE REFRIGERATOR, UNDERCOUNTER	120	1	2.5	SR	24"	
49	1	UNDERCOUNTER DISHWASHER	120	1	15.0	JB	24"	
51	2	BOTTLE COOLER	120	1	5.5	SR	24"	
58	2	UNDERCOUNTER FREEZER	120	1	0.8	SR	24"	
62	1	ICE MAKER W/ BIN, NUOGET	120	1	4.0	SR	24"	
64	1	COFFEE BREWER - BY OTHERS	120	1	20.0	SR	48"	BY OTHERS - VERIFY ROUGH-INS
65	1	COFFEE GRINDER-BY OTHERS	120	1	5.0	SR	48"	BY OTHERS - VERIFY ROUGH-INS
67	1	REFRIGERATOR, SANDWICH PREP TABLE	120	1	2.0	SR	24"	
68	1	DRAWER WARMERS ON CASTERS	120	1	5.3	SR	24"	
69	1	FOOD PAN WARMER, COUNTERTOP	120	1	10.0	SR	44"	MOUNT HORIZONTAL
70	1	FREEZER, WORKTOP	120	1	4.0	SR	24"	
73	1	SODA/ICE DROP IN DISPENSER-BY OTHERS	120	1	15.0	SR	48"	BY OTHERS - VERIFY ROUGH-INS
75	1	REFRIGERATOR, UNDERCOUNTER	120	1	2.0	SR	24"	
84	1	OVEN, MICROWAVE	208	1	20.0	SR	60"	
88	1	POS PRINTER	120	1	15.0	SR	24"	
90	2	POS AT BAR	120	1	16.0	SR	18"	FLOOR MOUNT RECEPTACLE
91	2	GLYCOL SYSTEM	208	1	8.0	SR	80"	VERIFY ROUGH-INS WITH SHOP DRAWINGS AND INSTALLER

CONVENIENCE OUTLET SCHEDULE

ITEM NO.	QTY.	TYPE	NEMA	TYPE AFF	ELECTRICAL REMARKS
CO-1	11	ELECTRICAL RECEPTACLE	5-15R	48"	
CO-2	2	ELECTRICAL RECEPTACLE	5-15R	14"	

REFRIGERATION SCHEDULE

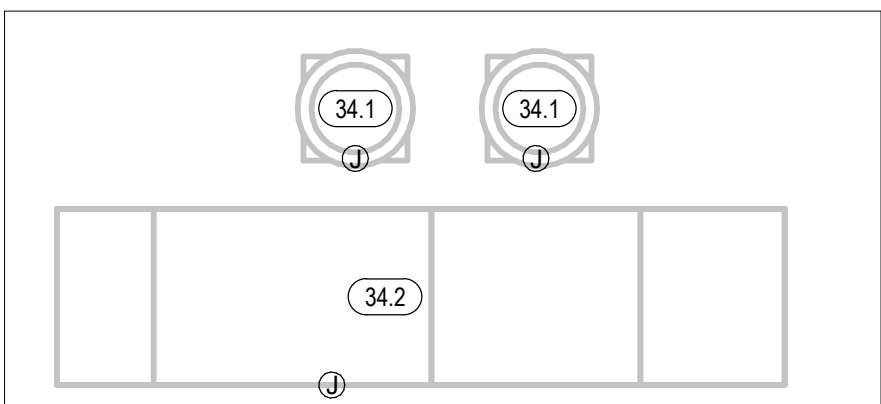
CONDENSING UNITS LOCATED ON CONCRETE SLAB/ BUILDING ROOF. SEE ARCHITECTURAL DRAWING FOR EXACT LOCATIONS.



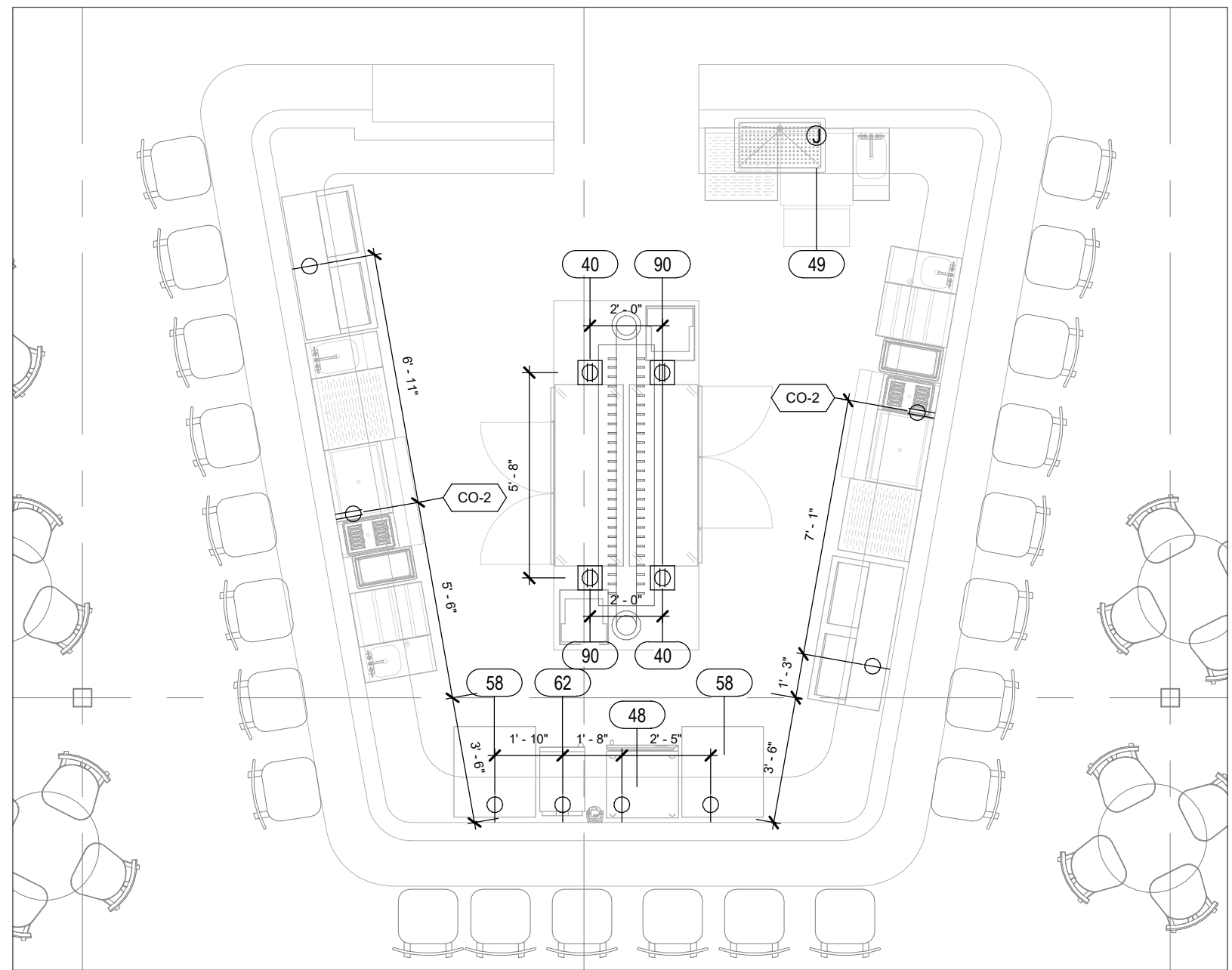
REFER TO MANUFACTURER SPECS/SHOP DRAWINGS FOR EXACT SIZE AND WEIGHT REQ'S FOR ALL REFRIGERATION EQUIPMENT.

EXHAUST/SUPPLY FAN SCHEDULE

FANS LOCATED ON BUILDING ROOF. SEE ARCHITECTURAL DRAWING FOR EXACT LOCATIONS

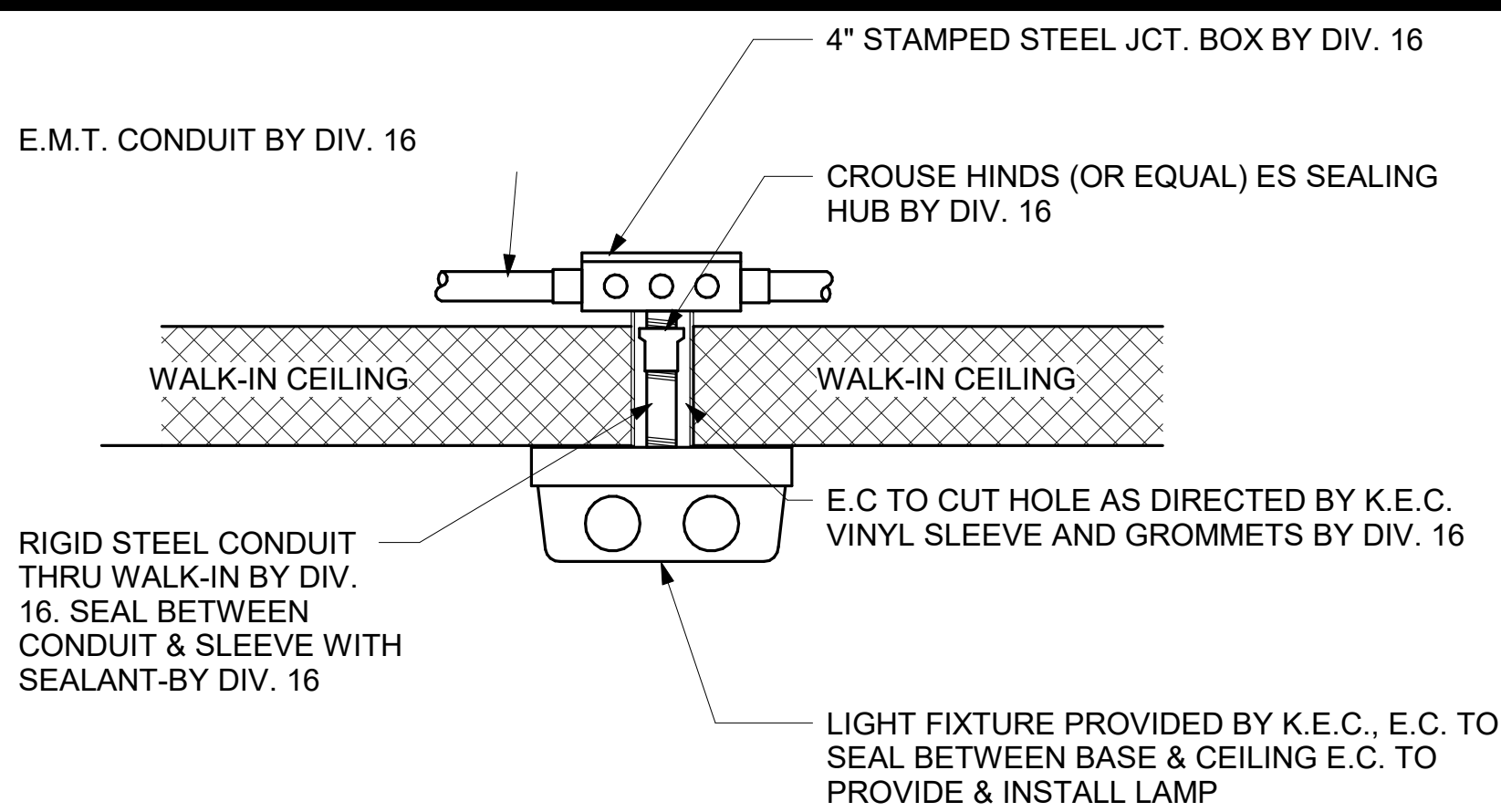


REFER TO MANUFACTURER SPECS/SHOP DRAWINGS FOR EXACT SIZE AND WEIGHT REQ'S FOR ALL EXHAUST/SUPPLY FANS.



BAR ELECTRICAL ROUGH-IN PLAN

1/4" = 1'-0"



1. ALL CONDUIT TO BE RUN ON EXTERIOR OF WALK-IN BY DIV. 16 UNLESS BOX IS LOCATED OUTDOORS. THEN CONDUIT IS RUN BELOW CEILING.
2. ALL PENETRATIONS THRU WALK-IN TO BE THOROUGHLY SEALED.
3. ALL LIGHT FIXTURES TO BE FURNISHED BY K.E.C.
4. MOUNTING FIXTURES, ALL CONDUIT AND ALL INTER-WIRING BY DIV. 16.
5. ALL LAMPS (BULBS) TO BE FURNISHED BY OTHERS.

WALK-IN LIGHT DETAIL

NOT TO SCALE

ELECTRICAL LEGEND

- DUPLEX RECEPTACLE
- SINGLE RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE
- QUAD RECEPTACLE
- FLUSH FLOOR MOUNT RECEPTACLE
- JUNCTION BOX - FLOOR/CLG MOUNTED
- JUNCTION BOX - WALL MOUNTED
- JUNCTION BOX - WALL MOUNTED (HORIZONTAL)
- SWITCH
- DATA CONNECTION
- MANUAL FIRE PULL STATION
- DROP CORD MOUNTED FROM CEILING
- CONDUIT STUB UP
- CONDUIT STUB OUT OF WALL
- DEFROST TIME CLOCK
- DISCONNECT
- LIGHT - RECTANGULAR
- LIGHT - ROUND
- MOTOR
- SENSOR (EXHAUST HOOD, TEMP, CO2, LIGHT)
- PLUG MOLD
- ELECTRIC PANEL

ELECTRICAL NOTES
(DIVISION 26)

NOTE: THE FOLLOWING ADDITIONAL REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE ELECTRIC CONTRACTOR (DIVISION 26) AND SHALL BE APPLICABLE ONLY WHERE NOTED ON THE ELECTRIC ROUGH-IN PLANS). THE ELECTRIC CONTRACTOR (DIVISION 26) SHALL VERIFY AND COORDINATE THE EXACT ELECTRICAL REQUIREMENTS FOR ALL N.E.C. EQUIPMENT PRIOR TO FINAL ROUGH-IN.

- FURNISH AND INSTALL CORD AND PLUG SET(S).
- FURNISH AND INSTALL DEVICE & COVER IN KEC (SECTION 114000) FURNISHED JUNCTION BOX.
- FURNISH AND INSTALL JUNCTION BOX(S), DEVICE(S), AND COVER(S) IN KEC (SECTION 114000) FURNISHED EQUIPMENT.
- CONNECT THRU DISPOSER CONTROL TO SOLENOID VALVE AND MOTOR.
- CONNECT FROM KEC (SECTION 114000) FURNISHED ICE MACHINE TO REMOTE CONDENSER AS REQ'D.
- CONNECT THRU KEC (SECTION 114000) FURNISHED AIR CURTAIN TO DOOR ACTIVATED MICROSWITCH.
- CONNECT THRU KEC (SECTION 114000) FURNISHED REMOTE CONTROL SWITCH(ES).
- FURNISH AND INSTALL SWITCH. CONNECT TO LIGHTS FURNISHED BY KEC (SECTION 114000).
- CONNECT POWER SUPPLY TO KEC (SECTION 114000) FURNISHED LOAD CENTER. COUNTER SHALL BE PREWIRED AND SHIPPED IN SECTIONS. CONNECT BETWEEN SECTIONS.
- CONNECT TO KEC (SECTION 114000) FURNISHED JUNCTION BOX AT WALK-IN DOOR ASSEMBLY. LIGHT FIXTURE AT DOOR IS PREWIRED TO FACTORY MOUNTED LIGHT SWITCH. MOUNT ADDITIONAL KEC (SECTION 114000) FURNISHED LIGHTS WHERE INDICATED AND CONNECT TO SWITCH. CONDUIT SHALL BE INSTALLED ABOVE WALK-IN AND NOT EXPOSED ON INTERIOR UNLESS REQ'D. CONDUIT PENETRATING WALK-IN SHALL BE NON-METALLIC OR PVC.
- CONNECT KEC (SECTION 114000) FURNISHED TEMPERATURE ALARM SYSTEM. COORDINATE WITH BUILDING SYSTEMS).
- INSTALL KEC (SECTION 114000) FURNISHED DEFROST TIMER. CONNECT THRU TIMER TO EVAPORATOR COIL.
- CONNECT FROM KEC (SECTION 114000) FURNISHED CONDENSING UNIT, THRU DEFROST TIMER, TO EVAPORATOR COIL.
- FURNISH AND INSTALL NEMA RECEPTACLE WITH WEATHER COVER.
- CONNECT EXHAUST FAN THRU FAN CONTROL CONTACTS IN DISHWASHER.
- CONNECT TABLE LIMIT SWITCH TO DRY CONTACT ON KEC (SECTION 11400) FURNISHED DISH MACHINE.
- CONNECT DRAIN WATER TEMPERING DEVICE PER MANUFACTURER'S RECOMMENDATIONS.
- CONNECT TO EXHAUST HOOD LIGHT(S), CONTROL(S), AND EXHAUST FAN(S)/MAKE-UP AIR UNIT(S) AS REQ'D. INTERWIRE HOOD SECTIONS, MOTOR STARTER(S)/DRIVES, AND OVERLOAD PROTECTION AS REQ'D. INSTALL COMPONENTS AND SENSORS SHIPPED LOOSE. REFER TO SYSTEM SHOP DRAWING(S) FOR ADDITIONAL SCHEMATICS.
- CONNECT 120 VOLT FROM KEC (SECTION 114000) FURNISHED MICRO SWITCH IN FIRE SUPPRESSION SYSTEM CONTROL PANEL TO SHUNT TRIP BREAKER(S) FOR SHUT DOWN OF POWER TO ALL ELECTRICAL DEVICES UNDER HOOD(S) AND 18" OUTSIDE PERIMETER OF HOOD(S). CONNECT FROM MICRO SWITCH TO DIVISION 26 FURNISHED RELAY(S) OR SWITCHES FOR SHUT DOWN/CONTROL OF HOOD LIGHTS, MAKE-UP AIR FAN, AND FIRE ALARM SYSTEM.
- CONNECT 120 VOLT FROM KEC (SECTION 114000) FURNISHED MICRO SWITCH IN FIRE SUPPRESSION SYSTEM CONTROL PANEL THRU MANUAL RESET RELAY TO ELECTRIC GAS VALVE. PROVIDE CONTROL INTERWIRING BETWEEN THE FIRE SUPPRESSION SYSTEM AND ASSOCIATED ELECTRICAL GAS SOLENOID VALVES, RESET RELAYS, AND PULL STATIONS AS REQ'D.
- FURNISH AND INSTALL CONCEALED CONDUIT AND RECESSED OCTAGONAL JUNCTION BOX IN WALL AT 42"-48" AFF FOR REMOTE MANUAL PULL STATION(S). COORDINATE LOCATION(S) WITH FIRE SUPPRESSION SYSTEM CONTRACTOR AND AUTHORITIES HAVING JURISDICTION PRIOR TO ROUGH-IN.
- PROVIDE 3/4" EMPTY CONDUIT AND JUNCTION BOX FOR DATA CONNECTION. VERIFY EXACT REQ'S AND TERMINATION POINTS PRIOR TO ROUGH-IN.
- PROVIDE DEVICE MOUNTED HORIZONTALLY IN BUILDING WALL.

REVISIONS

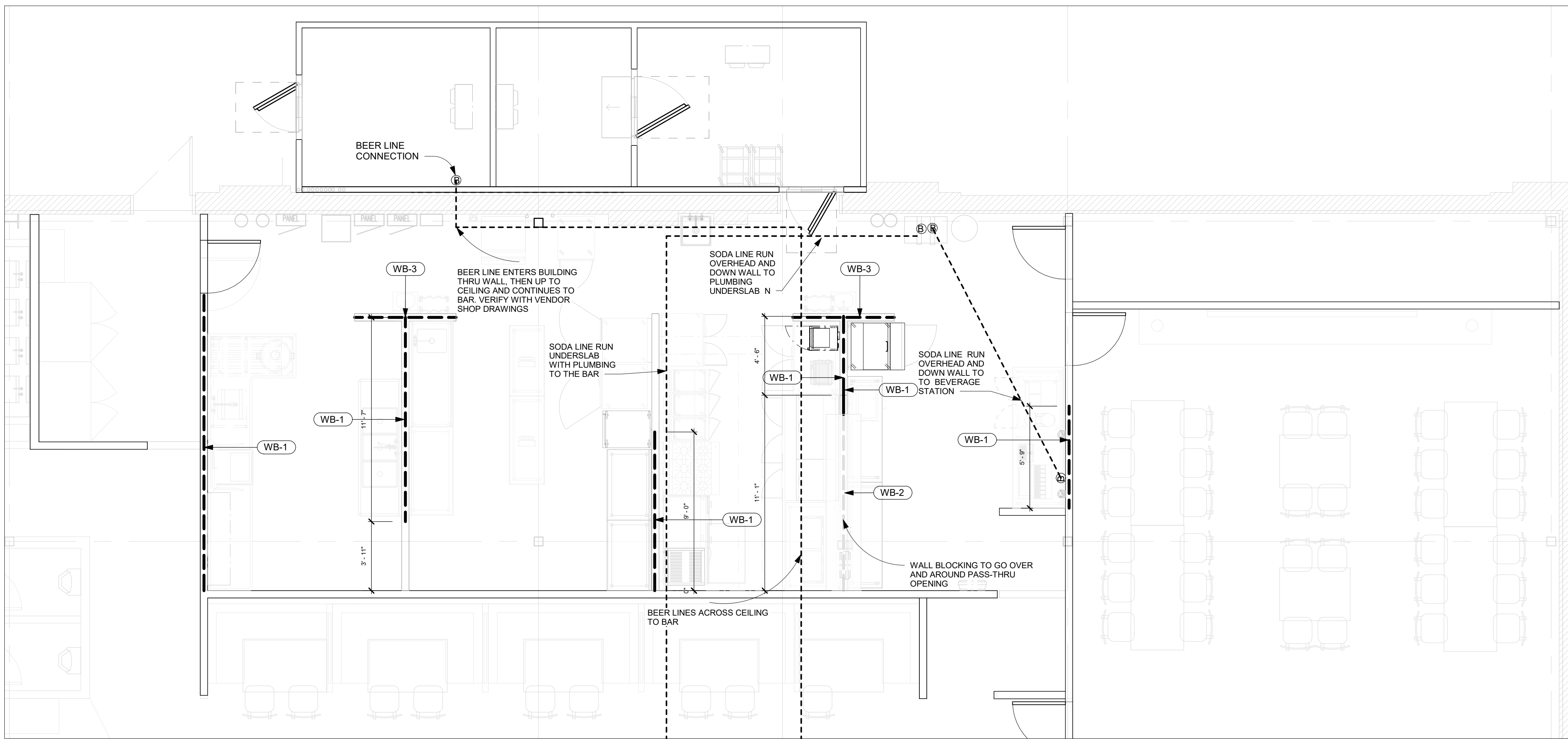
DATE	NO.	DESCRIPTION
07.12.2024	1	MEP ROUGH-INS
07.29.2024	2	PERMIT SET

PROJECT PHASE:

DATE:	PROJECT #:
06/27/2024	2024058
DRAWN BY:	APPROVED BY:
NLB	APR

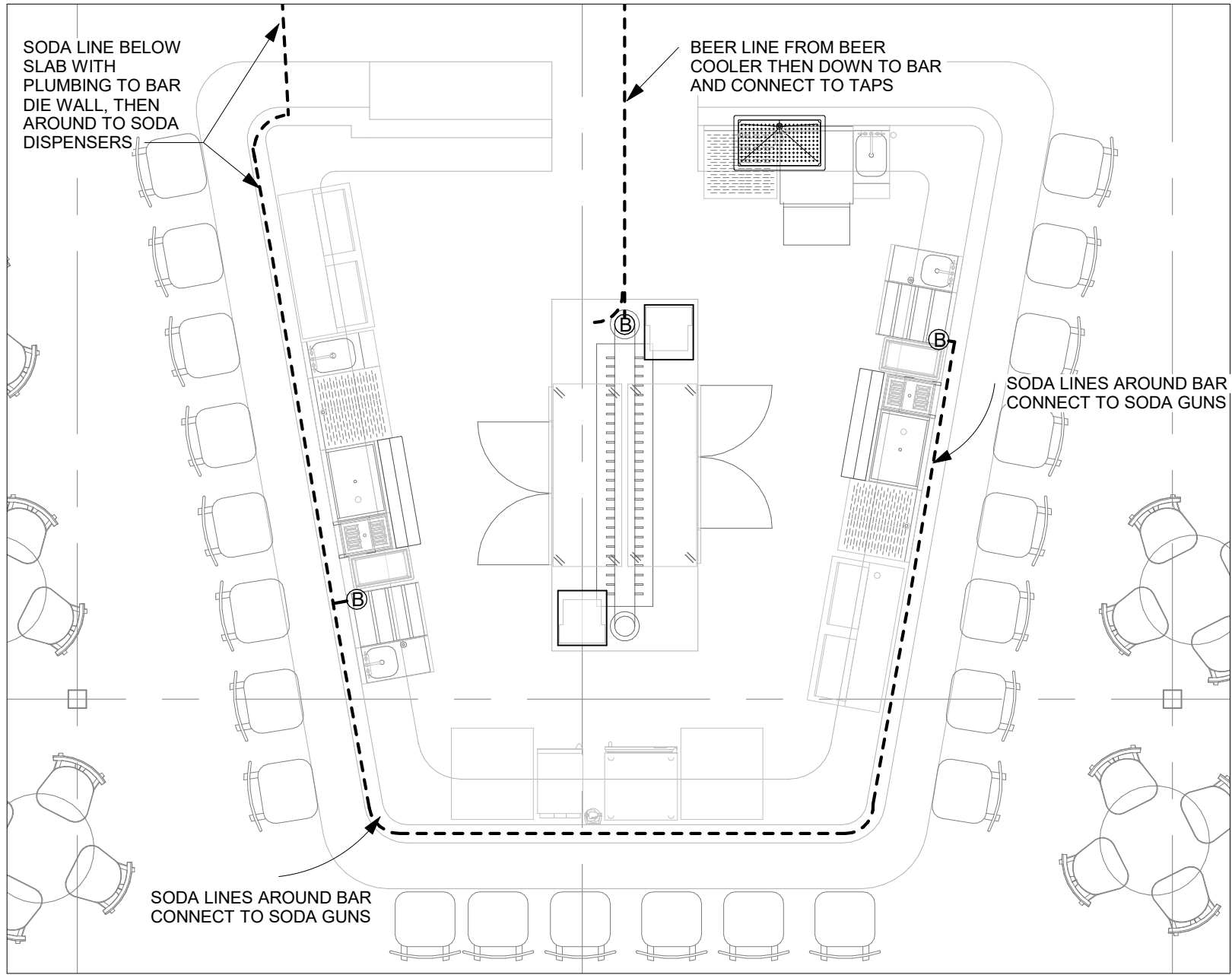
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SHEET NUMBER:



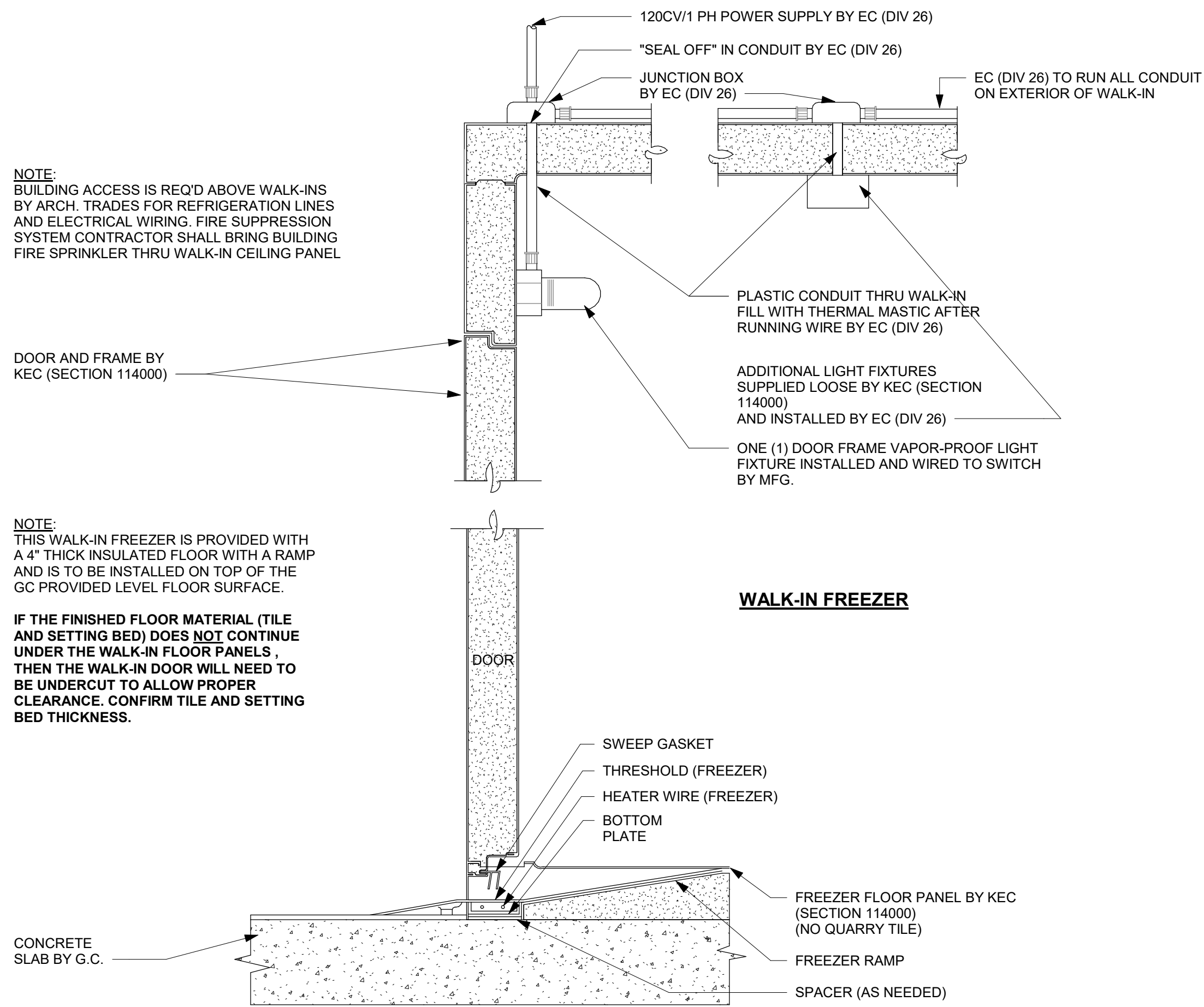
FOODSERVICE SPECIAL CONDITIONS PLAN

1/4" = 1'-0"



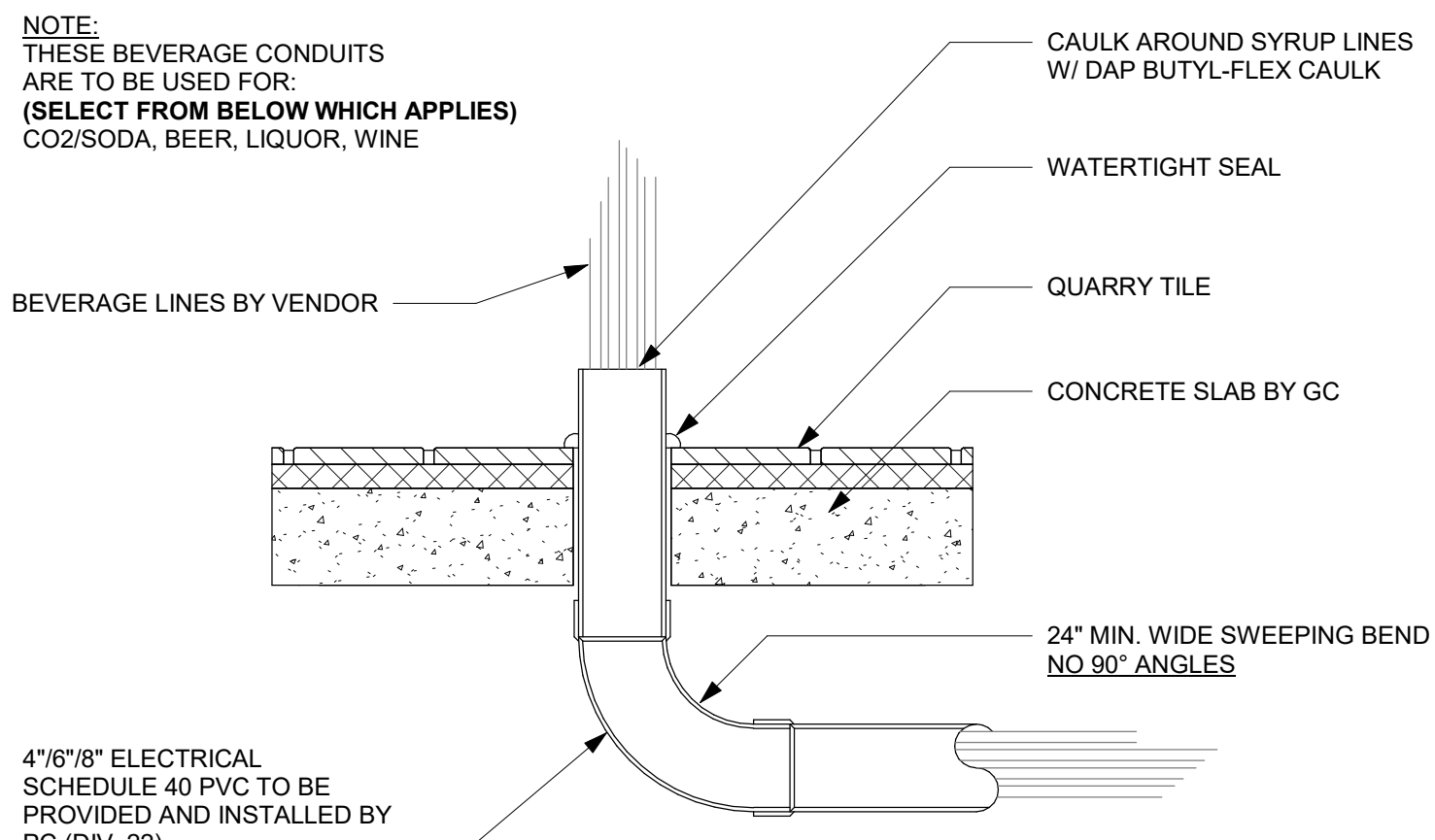
SPECIAL CONDITIONS - BAR ROUGH-IN PLAN

1/4" = 1'-0"



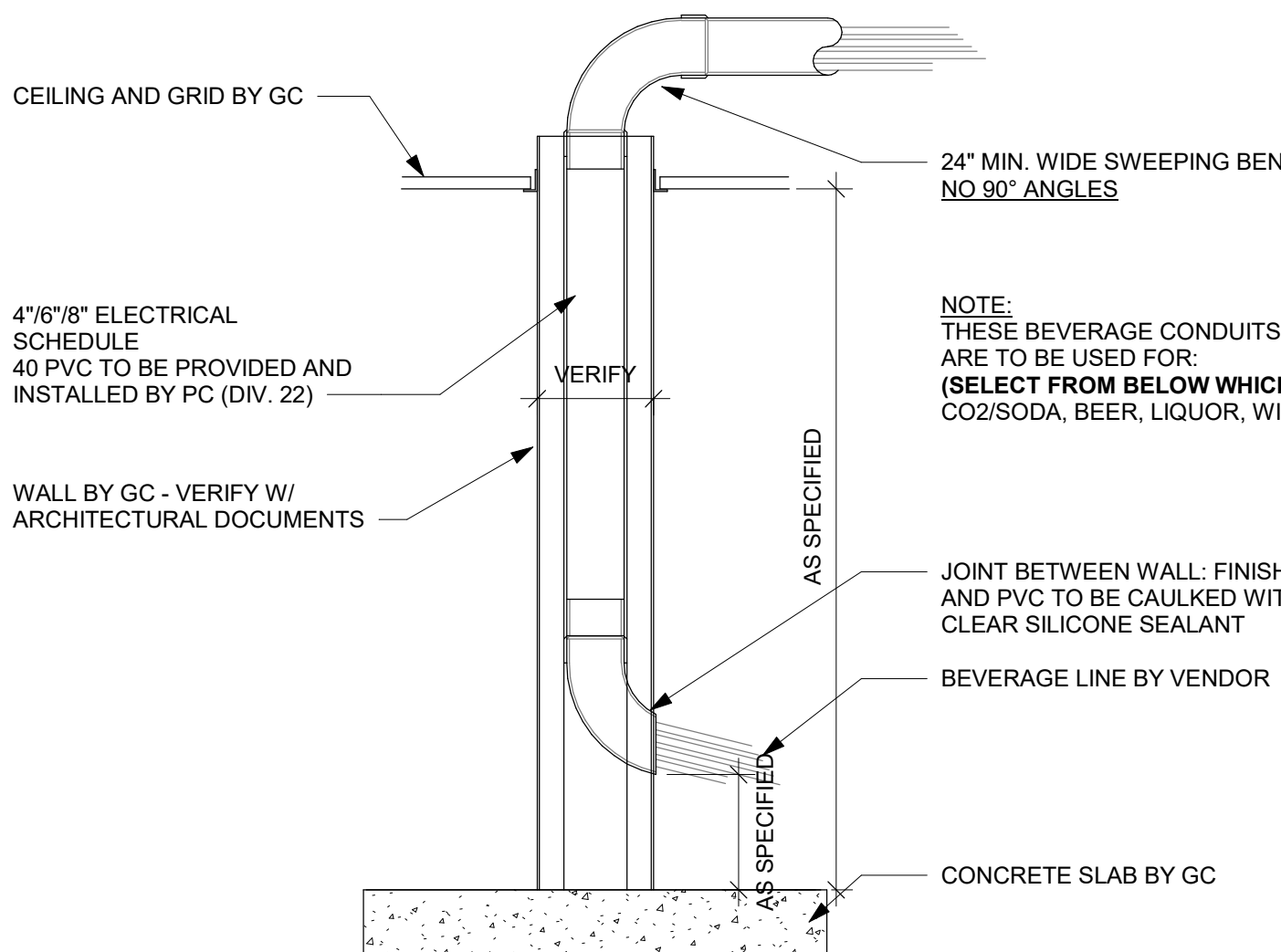
WALK-IN FREEZER ONLY IN 4" RAMP - TYP

1 1/2" = 1'-0"



BEVERAGE CONDUIT - OUT OF FLOOR - TYP

1/4" = 1'-0"



BEVERAGE CONDUIT - OUT OF WALL FROM CEILING- TYP

1/2" = 1'-0"

SPECIAL CONDITIONS LEGEND

- WALL BLOCKING
- - - - - PROPOSED STRUCTURAL SUPPORT
- ||||| NON-COMBUSTIBLE WALL

SPECIAL CONDITIONS NOTES

NOTE: THE FOLLOWING ADDITIONAL REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR (OR AS SPECIFIED OTHERWISE) AND SHALL BE APPLICABLE ONLY WHERE NOTED ON THE PLAN(S). THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE THE EXACT BUILDING REQUIREMENTS FOR ALL NIC EQUIPMENT PRIOR TO CONSTRUCTION.

- A. BUILDING FLOOR BENEATH WALK-IN MUST BE LEVEL WITHIN PLUS OR MINUS 1/8".
- B. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE X" DEEP FLOOR DEPRESSION FROM TOP OF FINISHED FLOOR FOR WALK-IN.
- C. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE PRESSURE TREATED WOOD THERMAL BARRIER CENTERED BENEATH WALK-IN WALLS.
- D. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE INSULATED FLOOR SLAB BENEATH WALK-IN.
- E. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE X" DEEP FLOOR DEPRESSION FROM FINISHED FLOOR FOR INSTALLATION OF FLOOR TROUGH BY PLUMBING CONTRACTOR (DIVISION 26).
- F. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL FURNISH AND INSTALL ROOF PAD FOR KEC (SECTION 114000) FURNISHED REFRIGERATION RACK.
- G. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL FURNISH AND INSTALL CONCRETE PAD FOR KEC (SECTION 114000) FURNISHED REFRIGERATION RACK/CONDENSING UNITS.
- H. REFRIGERATION CONTRACTOR SHALL FURNISH AND COORDINATE LOCATION OF EQUIPMENT RAILS AND PIPE CURBS FOR ROOFTOP CONDENSING UNIT(S).
- I. HVAC/MECHANICAL CONTRACTOR (DIVISION 23) SHALL INSTALL KEC (SECTION 114000) FURNISHED RAILS & ROOF CURBS FOR EXHAUST FAN(S) AND MAKE-UP AIR UNIT(S).
- J. KEC (SECTION 114000) SHALL FURNISH AND INSTALL RAILS AND ROOF CURBS FOR EXHAUST FAN(S) AND MAKE-UP AIR UNIT(S). GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL FLASH-IN RAILS AND ROOF CURBS.
- K. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE STRUCTURAL REINFORCEMENT ABOVE CEILING AS REQ'D FOR KEC (SECTION 114000) FURNISHED EQUIPMENT.
- L. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE MINIMUM VERTICAL
- M. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE MINIMUM VERTICAL
- N. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE MINIMUM VERTICAL

WALL BLOCKING NOTES (DIVISION 6)

- WB-1 24" AFF TO 96" AFF FOR GENERAL PURPOSE
- WB-2 24" AFF TO 48" AFF FOR PASS THROUGH SHELF
- WB-3 30" AFF TO 60" AFF FOR HAND SINK
- WB-4 48" AFF TO 60" AFF FOR WALL SHELF/MOP RACK/POT FILL/PRE-RINSE
- WB-5 48" AFF TO 78" AFF FOR 2-TIER WALL SHELVES
- WB-6 48" AFF TO 84" AFF FOR RACK SHELF
- WB-7 54" AFF TO 90" AFF FOR WALL CABINET/SALAMANDER
- WB-8 60" AFF TO 78" AFF FOR WATER FILTER
- WB-9 66" AFF TO 84" AFF FOR POT RACK
- WB-10 72" AFF TO CEILING FOR FIRE SUPPRESSION/HOOD CONTROL
- WB-11 78" AFF TO 114" AFF FOR EXHAUST HOOD
- WB-12 84" AFF TO 102" AFF FOR WATER FILTER/AIR CURTAIN
- WB-13 102" AFF TO 114" AFF FOR CLG MOUNT AIR CURTAIN
- WB-14 VERIFY WITH ARCHITECT FOR BACK BAR SUPERSTRUCTURE
- WB-15 FINISHED FLOOR TO FINISHED CEILING

NOTE: GENERAL CONTRACTOR AND/OR SUBDIVISIONS TO PROVIDE 3/4" WALL BACKING FOR WALL MOUNTED EQUIPMENT. MATERIAL MUST MEET THE SIZE AND LOAD REQ'S OF THE SPECIFIED EQUIPMENT AND SHALL BE COMPLIANT WITH ALL LOCAL CODES, LAWS, AND REGULATIONS. PROVIDE METAL BACKING OR OTHER ACCEPTABLE MATERIAL AT EXHAUST HOODS AND FIRE RATED WALL ASSEMBLIES AS REQ'D BY THE AUTHORITY HAVING JURISDICTION. ALL WALL BACKING SHALL BE CONCEALED BEHIND WALL FINISH. NO EXPOSED WALL BACKING SHALL BE ACCEPTED. IN THE EVENT THE KEC MUST REPAIR OR REPLACE THE PROVIDED BACKING, THE KEC WILL NOT BE LIABLE FOR ANY DELAYS OR ADDED COSTS.

BEVERAGE/REFRIGERATION LEGEND

- Ⓟ BEVERAGE CONDUIT STUB UP
- R—R— REFRIGERATION LINE SET
- BEVERAGE/REFRIGERATION CONDUIT RUN
- OIL—OIL— BULK COOKING OIL LINE SET

REVISIONS

DATE	NO.	DESCRIPTION
07.12.2024	1	MEP ROUGH-INS
07.29.2024	2	PERMIT SET

CRAFT PUTT
LEE'S SUMMIT, MO

PROJECT PHASE:

DATE:	PROJECT #:
06/27/2024	2024058
DRAWN BY:	APPROVED BY:
NLB	APR

SHEET TITLE:

FOODSERVICE
SPECIAL CONDITIONS
PLAN

SHEET NUMBER:

QF401